

SEQUENCE LISTING

<110> Vaisvila, Romualdas
Morgan, Richard D.
Raleigh, Elisabeth

<120> Restriction Enzyme Gene Discovery Method

<130> NEB-165PUS

<140> 09/701,626

<141> 1999-06-11

<150> 60/089,086

<151> 1998-06-12

<150> 60/089,101

<151> 1998-06-12

<150> PCT/US99/13295

<151> 1999-06-11

<160> 130

<170> PatentIn Ver. 2.0

<210> 1

<211> 14143

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: genomic DNA of
Pseudomonas Alicaligenes NEB#585 (ATCC 55044)

<400> 1

```
atcgatcagc cagacttttc gcacacgggc ggaccttggg cgagtcagcg ctatgggttg 60
ccgctgtggg ttgtcagtcg ccgtacgcgc aatctgtttc tttcgcaggg catgtccggc 120
tgggcgttcc ggcccgttct ggtcaccgac tcggctctct atgagcgcta tctcgtctta 180
agtcaggaac tttgcgcact gcttcgtgat gcaccgcaga gcaagctcga agaccgtgat 240
tggtaagcgg gggctattcg atcagtcctg gagcgaccaa actccagaaa cgacaaggcc 300
ctgaaaaaaaa agcaggggctt cgtcttttgcg ggcgaaatgga atcggacctc tttccgcctc 360
tgcatgtaac tggctctttgt ttgccaaatc tgcctatctc atgccggcca tgttggccag 420
tgcttgcata atttggcctt tggtttcgac actttttcga cagccctgct agacatccct 480
ccctctgccc tcgtaacttc tgttccgatg gtgtcgcttg gcactatggt cttgtcagat 540
gtcgcttttc atccagccta atgccgcgat tgcctcgctg agctgtagct gaatcaagga 600
cttagcggac gacaaggaat gttatgcgaa acatgtggcg gaataaatta cgccgcatgt 660
ttcgtctact tatagtttag ctacatatga gaatcagcgc agaccagctt gctcaagaat 720
```

cactgactga	gttcggcgctg	ctggcgggcta	agcttcttggc	aacgcgagag	cttagccagt	780
tgtccgagaa	gtttgggtat	gcactggcct	tcggaaggga	accggcggt	gccatagctg	840
aggaccttgc	taggtgcttg	tgcggacaaa	atgcttcgcc	ggcatctgaa	taccccaaaa	900
tcaccgttaa	gtatttcaag	gaaaacgaaa	gtagtctgtt	ggcactcgta	gagtgttatg	960
tacaaatgac	cgcaagcgca	aacattcttt	tagagctggg	tgccgcacga	aatggagagg	1020
caataaatct	gtatctagaa	ggcttgagt	ttgtagccta	acaatgcgct	caaagcgctc	1080
acttcgttcg	ctgggaccgg	cgaagccggc	cccttagctt	aatcgtaga	aaccatcatg	1140
gataactggg	acaacaccat	cgaataccaa	acccatgtag	ccgaaaaact	agaggcactt	1200
ggagaaacaa	agtacgaccg	cgaggcttat	gaattcgcgc	tagaggcata	ccagtatgcg	1260
cctgaatatc	atgaaaatat	tcccacgccg	cctctcaatc	ttgggctcgc	gtaccatgta	1320
agcgcttca	actttgcaca	ctgctatgta	cttcacgcga	aagaagtgtt	tgaagctcca	1380
aaagacacac	tgagctcctg	gggcgtat	tcctcaacgg	acattggtga	aattgtttat	1440
ggtttagtcc	gtattggctt	gctggaccaa	ggccccgaag	acaaaaaaga	gcagtttgaa	1500
gggttggttt	taatcaccga	ctgtctgtga	tgtcttctaa	ctactggttc	aagtcgttcg	1560
cttcgctcac	tcgggaccgg	ctaaagccgg	ccccttaacc	aaacgttagc	cacctcacga	1620
agatttgag	cccgcgtgaa	caaagtcgat	acaaacaaaa	ttaaaacgga	tttttcggca	1680
cgaattgatg	aaaaaagagc	gtggtttgat	cgtatggcta	cgcttataag	cgggacaaac	1740
accgagttaa	ccgaccttaa	ttttctttgc	gagaactata	taacatcaat	atacgtagag	1800
ctcgaatgct	taatatcaga	tttatttcat	ggctacataa	ataacaacaa	caagacctac	1860
atggcgacac	ttcaatcaaa	aatcaagaac	tccataactg	acaagtactc	tgcatggcac	1920
gccaccata	caacattcgc	aggtccagag	catattaatt	cagcacagct	cagcacgctc	1980
cttgatccaa	caagctggaa	catcacattt	aaagacgttt	ccgcaatgaa	agtacgagca	2040
aaggaatacc	tttctcagt	acacgaaaaa	agattttcag	gtatatctgc	atccgatgga	2100
gctcttattg	atgccgcaca	tgcaatcaga	aattgcattg	cacacaacag	cgaagctcc	2160
agaaagggtta	tgaacaccaa	aattaaaagc	ttaattacag	gcccagcttg	ctcaaagtgc	2220
ggccttgaa	tcaccacaaa	tagtgtgacc	aaaataggaa	agtatctccg	tgcaaagtgc	2280
cagcaaagca	tgcgagtgc	gatttactca	gatcgaataa	aatctatcgg	cctaagctta	2340
taagtgtggg	ctaacaatgc	gctcaactgt	cgctcacttc	gttcgctgga	cagccaaaag	2400
ctacgctttt	gtctgcccgt	tagcttaatc	gttaggaggg	tctgcatgac	tcgtgcaaca	2460
gacaggttcg	aagagcttct	gcaatcacat	gagttctcag	ggcatattat	tcgttggtgt	2520
gcgatattcg	aaggccgtct	tgacggtgtg	ttatcagttc	atttttctgg	acttgaaagc	2580
acctatgaat	tctacgaact	catactttcc	aggttgtctt	tctacgaaaa	aattgaaatc	2640
ctgagaaaaa	ttgattttgg	taacagtctc	aaatcccaag	aaaatacagc	gctgcacctt	2700
gacaaaactga	ggcgattgcg	taacgcattg	gcgcatgcag	cacacatgcc	acctgatgaa	2760
atcatgaagt	tgtgctctga	taagtggata	gagtcctttg	tgctcggata	tccaaagtcc	2820
attggcaaa	agaaaaatgc	acttgaaaat	cggctatcac	ttctgtggaa	ttactgccac	2880
aggaggcatg	tagcaaaaat	taagcagctt	gcacacgaac	tcaaaaatac	agagcaagcc	2940
aactaataga	gtccagttat	acagggtccg	aaatgagccg	cctaacaact	ggttcaagcc	3000
actcacttcg	ctcgtcggg	accgcgttcc	gcggcccctt	aaccaaactg	tgggcaccca	3060
tagaaaaatc	ctaatagaga	aactattcat	accactaatt	ttcgccctgc	tatcgagag	3120
cttgatggca	tctgaagcgt	ataaggacct	tgaaacacaa	gtaactgaaa	aagccagcct	3180
agcagttgcc	caaatgaatg	acagagcaac	tggaagctc	gactactcgg	aagaaagtct	3240
ctatgcagta	gaagaaatgg	cagcggaagc	agctcaatac	aaagatcaat	tagatccagc	3300
cactgtagac	tcgcttactc	aagttcttgg	aagctatatt	cttgaggttg	cacatagaaa	3360
gcatggcggc	tcttacgttt	ggcttgaatc	tgaaaactca	cctgccttgg	tagttggtga	3420
accagagtac	aggctagcac	tctcaacctt	cgccaaggta	catggccgac	tttctggcga	3480
cgaagcagat	aatcttattt	tcttctatca	aggcttttct	gaaaggctta	aatcaccatc	3540
tcccggcatg	agcgcaactc	acaaatgaaa	cccaggtttg	ggggcccaac	aatgcgctca	3600

actgccgctc	acttcgttcg	ctggacgtcc	aaaagctacg	cttttgcccg	cccgttagct	3660
taatcggtat	gcacaataaa	acatgaagac	agcactcata	tttgtagctc	taatctttct	3720
ctctggatgt	gacaactatc	agtcatgccc	tataactgga	aaatggaaat	ccaacgaaaa	3780
gctaacttta	gaaagcatga	atgaaaccgg	caggataacg	gcaaagcaaa	gagagatttt	3840
tgagaacggc	ttctttggaa	aactagaatt	agacataaat	tgagtagct	tcacaacaat	3900
acttgacggc	gttaccgaaa	cctttaatta	cgagatagtt	cgccaaacaa	aagattccgt	3960
caccgttagc	tattacagca	aagcgtgca	aaaacaagtt	gaggtcacat	ctattatcaa	4020
cggaattgt	tactcgacac	ctatagagca	gttaaatttc	aatgagtatt	tctgcagagt	4080
cgagtagcgc	ataacaattg	attcaagtcg	ttcgcttcgc	tcactgcggg	accggctaaa	4140
gccggccctt	taaccaaacg	ttaggcaaag	gctcaatgga	tcccatattc	cataacatcc	4200
atagaaacga	caaagagatt	gagggcgctc	atcaacaatg	ctcgagcaca	atcaatcact	4260
tcattgagat	gggtcaaaaa	ggggcgagc	ccacctatat	ggcaaagcta	cgttttcttg	4320
accctgacaa	gtctgaaaaa	gaaggtaaga	atcatatttt	ttatttggtg	ttatctgaag	4380
tgctgtacca	ccctgcaaca	aatttacttt	ctggggtatt	ttttgaaatc	cctgaaggct	4440
ttgaaaagt	gcaccaaata	ggccagcgcc	taggctttga	tccagaagat	gtctttgatt	4500
ggatggtaat	cgacaaaggt	catgctaagg	gtgcatacac	actaaaggta	tcgcgagagc	4560
gcttaaccac	cgagcaagaa	agaaaagatt	ttgaccgcta	tattggtgtg	gcgtcatatg	4620
agtagcctaa	aattaagcgc	tcacgcctca	gcctaactac	tggttcaagt	cactcgcttc	4680
gctcgttcgg	gaccgcgttc	cgcgccctt	taaccaaacg	ttaggcgcaa	gggcaatatt	4740
ggcttccagc	accgagtcag	gaaacacaat	caccgaatca	gcgcggtgtt	cctgaatcga	4800
atggtcgctg	acagttgagg	ccgttatttg	tggccagcaa	aggagtgtgt	ttcagagaat	4860
gtgcacgtca	caaataactt	ccggggccaa	aaccgaaacg	ccgtgcgctc	cgccggttaa	4920
gctcggcgct	ggcatcattt	tcggcgctcg	gctgggcaat	ctaacaattg	gctcaagtcg	4980
ttcgcttcgc	tcactcggga	ccggcgaagc	cgcccttcta	gccaaacggt	atgcgagcca	5040
ccatgaatag	cgaagaatta	tacaaaaagg	ctatggagtt	agagtcctaa	tgcgagcata	5100
aagcggcaat	ttcaacttac	aaagaaattg	ttaagaaatc	taacgatcct	cgacacttca	5160
tcgcattcgg	agtttgctc	caaaaatgtg	gtcactggaa	gcaatccatc	gaggtattag	5220
aatcaggaat	tgactgaag	cctcactatt	gcgaggggtga	tgctcgtcta	tttttagcaa	5280
aagcactttt	taaatcaggc	aaaaaaggcc	ttgcgataaa	gcaatggcaa	catgtatcaa	5340
aaatgcaacc	tgagtacca	agttatgagt	ctgtgcaaaa	tgaagccaag	aaaatgcttg	5400
cacaaaacgc	ataacaattg	gctcaagccg	ctcgctccgc	tcactcggac	gtccgtaagc	5460
tacgcttcgg	gccgcccctt	agccaaacgt	taggcaccac	atgccctcca	tcaagtcagc	5520
aagccaatac	cagcgcgcaa	catcgctcat	cttcttagtg	tcaggcgctg	cttggctatt	5580
catcgtgcag	tcttcgttgc	tgccattgac	ggatgtcgcc	cgccaagaaa	tggtttgcct	5640
taatatcggt	cttggtattg	cctgttttgt	tataggtagt	gcggcaaagc	gtcagcgaga	5700
atttcgctgc	cctgactgtg	ggaacgaagt	agatcagagc	ttacctacag	aggggtgatg	5760
cgccccactc	ctaaggctgt	gcaagcactg	cgatattcta	tggaatgttg	gcaagacccc	5820
agacagttaa	agttaccgcc	taacaaatgg	ttcaagtcgt	tcgcttcgct	cactcgggac	5880
cggctaaaagc	cggcccctta	accaaacggt	aggcaacagg	gggtgacatg	acgcaatgtc	5940
caaggtgcc	gcgcaatctc	gcagctgacg	agttctatgc	tggctctagc	aaaatgtgca	6000
agggttgcat	gacttggtgaa	aacctaagct	acaacgcgaa	taaggaaggt	catgccaca	6060
ccttcaccaa	agcgacattt	ttggcggtgt	acggcttatc	agcacagcgg	cattgtgggt	6120
attgcggtat	atcgagggca	ggttttacat	ccttgcacag	gactaatcca	cgcggtacc	6180
acatacagtg	tttgggtgtt	gatcgctcag	attcgttcga	aggctattca	cctcaaaacg	6240
ctcggctcgc	ctgttttata	tgcaacagga	taaaatcaaa	catcttcagc	gccagtgaga	6300
tggacgttct	aggtgaggcc	atttcaaaag	cgtggcatgg	tcgaggaatt	gcctaactat	6360
tcagtcaagc	ggacgcaaac	cccgtgcgc	ggtctttgcg	ccgcttatct	caagcgtag	6420
atgaataaaa	gcctccacac	atagccagct	ttacgggaac	gaagttgatg	cgacgcctct	6480

ttactgcctt	agtattaatt	ttgatgattt	ctgggtgctc	ctccacatca	aaaactgaaa	6540
gccataaaca	gccgccgaac	aattcaagcg	acacgaccgc	catactgaaa	tatatattta	6600
ctgttaccce	tggcatagaa	gagggctttg	ccaagtcact	tgagcaagga	agttacacac	6660
cagatgaata	tatgctcatg	cagcaggctt	ttagcaatct	tgatctaaac	agattaacca	6720
ctctttttatc	accactttta	gataaaaagca	tgaacaccgc	agacgtaaaa	catttcatga	6780
tttttataaa	atctactgca	ggtaagaact	tgctaacagc	aggagagtct	agcacttctt	6840
tttccggcac	aatggataga	gttcgatcac	tacctccga	acagcagtcg	aaaataaacg	6900
agttctttcca	tgccagctac	acaaaaaaca	ctttaacagc	catgggggct	ccagaggcgg	6960
tacgcattgt	ttatgcattt	ggagtggaa	ccatgtgcaa	ttacgctatg	cgcaataatt	7020
tcgaactgta	tattttctatt	atagaaaaag	gcaaatgcca	ataaaccaca	aaaaacaaaag	7080
gccggatcga	tccatgtgaa	catcagcgtt	acatctaaca	tgtggttcaa	gccgctcgtc	7140
tcgctcactc	gggaccggct	aaagccggcc	ccttaaccaa	acgttagagg	attacatgcc	7200
atcactccaa	gaactccaat	cgccgattga	ctcagcaatc	gtgaactcca	tgattgagag	7260
cactcccgaa	acatgaagcc	agattattct	aacgttggta	cgcgaaatcta	attcctcttg	7320
tgtaggtaac	tttacacatg	agttatccag	tcttgagggg	catgcaccag	ttgggtccggc	7380
agagagctta	tttgaagaca	cttaccaact	cgatgagtta	ttctacagcc	atggtgagcg	7440
cttattcacc	aaggcaattt	atcgggctaa	tgcggttggg	gacggttggg	catatcacgc	7500
tgagtttgaa	tatgcgtagc	atccctctaa	caattggttc	aagccgctcg	cttcgctcgc	7560
tcgggatcgg	cgaagccggc	accttaacca	aacgttagag	atggtcatga	ataaacgcgc	7620
actaaccttc	gggctactca	tagcaattct	agctagtatc	atttcacaag	cgctgcttca	7680
tggccaaaag	gtaatcgctt	ccgacgtggc	tttatatact	ccatatttcc	tatctccaat	7740
atttagcatg	ctgatacaag	ccacatcgat	gctggcatgg	gccataacctg	gactttatgt	7800
aggctactta	tgaagaaca	agccagcaca	acatggagca	aaattggggg	cagcatatgg	7860
aatacttctt	ggattaattg	tattcgcaat	gcgagcttcg	acccaattaa	cgtagattct	7920
aagttaataa	tcgcaacatc	tgctttaaca	caaaaagcaa	aatattcagt	gcactttgcg	7980
ctagttgctc	ctgccggcta	tcttcttgca	aagcatcggtg	caaatctcta	acaattgggtt	8040
cagatcggtt	gcttcgctca	ctgcgggacc	ggctgaagcc	ggcccccttaa	ccaaacgtta	8100
ggcaactgaa	tgatcacctg	cattccggca	cgtgaattcc	tgcgtaaagt	atgcggcctg	8160
tacgaagcct	caactaatgt	agttaagttg	cgtgtatggg	cttgtggata	tggcatcgca	8220
atggatctaa	ctgtcaaagg	taaatctgtc	ctttgtgcgg	ttgcgggagt	actccgccaa	8280
gaggtcgaat	gctttgctca	aattgggctt	ccgaacgtaa	ttcagttagt	aggcgacaag	8340
gcgtcagaga	atcaactaaa	gctcataggc	atggaaccac	caatcgaa	tcatatctct	8400
cgcgaaacaga	gcaggctcca	agttgtaatc	ttgtacgagg	gtcaggtaaa	ggctacatat	8460
gtgctgtcag	ccgcctaact	actggttcaa	gtcgttcgct	tcgctcactc	gggaccggct	8520
aaagccggcc	ccttaaccaa	acgttaggct	ttcaatgaaa	acagttccag	tgaaaatatc	8580
agaagtcgaa	ctaatagaga	gttttgggaa	attcctgata	aatcaagact	taatcgacta	8640
tgaaaattcc	cacttcagtg	gcgacgacaa	ccataatgca	gatgtagcct	tatctttaaa	8700
gccagggaaa	tggccaggca	ttcaagtcga	taaactacac	atagaagtaa	agtcacacca	8760
ctcagaagac	tctcaaaaaca	ccatcaacaa	aatattcggc	caattactaa	aagaaaccgg	8820
aaagcgaagc	ctcgataaag	agaaagagtg	cttagctata	ttgttccctt	acgagcgcg	8880
cgcatggcca	ggtcgaaaaca	acaaaacagt	aacaagaatt	gaagggtgaag	cttattaccg	8940
gaggggcttt	tcgagaatcg	acaaacagac	gtttgttaaa	tttgggtgact	tgggtcggtgc	9000
caaatacatc	ctttcctttt	ctacagcatc	aaacacattg	aacgtatttg	aatggaaaaa	9060
tttcttagat	gaggaattca	gcccgatgat	cagcctaaca	aatgggttcaa	gccgttcgct	9120
tcgctcactc	gggaccggct	aaagccggcc	ccttaaccaa	acgttagacg	caccggaaat	9180
tttgcattgg	aaaccagaaa	atggatttgc	agataaacga	tacaaagggt	gagtgggttt	9240
ctccaatact	gaagcaatgg	atcagcatca	acaaagaata	cgtcaagcaa	tatgatttca	9300
aagactgcct	gcactggtat	aacgaaagg	caaatataag	tgtttttgct	ggtgccgttt	9360

ggaagtctgg	aggttttgcg	ctggaagaat	attcaactaa	aaaaggcacc	gaagaaaaca	9420
gagccaatgg	tcgtgtcgcg	ctatatctct	ccaatgacaa	cgagcaagcc	attgttgaag	9480
caaaaatgga	atggctctac	ttcggaaagc	gcacaagact	agatttcaaa	gaaaaaatag	9540
atcgtgtagt	tgaaaaagca	aagaatgaca	taattaacag	cctgcatgcc	aacccttacg	9600
atctagggct	tgggctttcc	tttatttgca	catactggaa	aaagggttat	gacgcatccg	9660
ccgacatgca	agcccttaga	gcgcttatgc	aaaattataa	ctgcgcattt	tatgcaattt	9720
ttgaaaacag	ccccgacaac	gaaattgtta	gctcaaaggg	caatatctgc	aacgctgtga	9780
ttttagttgg	gacggcgcac	agctgaatcg	tgtgtgtgcg	tctaacaatg	cgctcaaagc	9840
gctcacttcg	ttcgctggga	tcggctaaag	ccggcccctt	agcttaatcg	ttagcactag	9900
gacttccgac	catcatgagt	gatagagacg	aattttctgc	cccaacaaaa	agagcgctag	9960
ccgaaaggag	tggcttttag	tgttcttatc	ttggttgctc	taatgcaacc	atagggccta	10020
gtgaagaatc	agaaacagcc	gtagcaagaa	cgggggtggc	gtgtcatata	actgccgcag	10080
cgcccgggcg	aaaaaggtat	gacccaacat	taagccctac	ggaacgaagc	tcaatctcga	10140
atggtatatg	gatgtgccaa	acgcattcag	ttgaaataga	tagagatgag	gcccgatata	10200
catcgacctt	attaaatcac	tggaaaaata	tatccgagag	ccgagcagat	tatgcaaaaa	10260
atcatggctg	ggatattttt	gacaaatacc	ccttccttca	tattgactcg	ctagccaaca	10320
tagacctggc	tcttaccaaa	agcccttcct	caaatagcct	tatcgggaat	gccattacag	10380
acagctgcct	ccctcaacta	tggggtaaag	agcaatctgt	aatcatcaga	gacctataaa	10440
tagaacttta	tcgaaatgcc	ttcgatcacg	gcgaggctag	ctcattcgaa	atatccatat	10500
cggagcaaaa	actagaaata	gtttacgatg	gcaaaaaatt	tgacatcttc	caacttcttg	10560
accaccagaa	tgcaaacggt	ggcgccgata	ccttgcaaga	aattgtagaa	aaatatggca	10620
gtaactttgt	agtcaactat	agccacgaag	gcaacaataa	aataataatt	cacaggctct	10680
ctgactttta	cgcgcttgca	ccatccctcc	cgtgcgtaat	atcactgagt	gaatacgatg	10740
acaaggccct	agagttagac	ctggctatct	atgagcgctg	cggtgcactg	tacataattc	10800
taccgttgca	tttttgtaga	tcagatgtca	gggggctaga	gtcgcagcta	gccgcctttg	10860
aacctaattg	aaagccagtt	tacattgtag	gctcagatgt	ggcagagcct	acaagaaaag	10920
caattataga	caggcttccc	aacttcacgt	tcgtccaaaa	gcaatgctaa	caatgcgctt	10980
aactgtcgct	cacttcgttc	gctggatagt	caaaaagctgc	gcttttgtct	gtccgttagc	11040
ttaatcgtta	ggcgcaagga	gggaccgtga	ctgaaactga	gaaaatgggtg	ggtaagtctg	11100
tcagcggttt	tggcgggcag	agataccgag	aaatttttga	agtcctcgaa	tccagtaacc	11160
ttcgcccact	gggcaagtca	aatactgaaa	cattgctatt	tcagcttcga	ggggctgata	11220
gtgaaatgct	agatattttt	gcctttcgct	tggggccgcc	gccagtaatt	tcgtttccca	11280
aatcatattg	gctaggtcgc	ccagtgtaat	taagcgctca	tctatccaat	ttttcattct	11340
cggaaaagcc	agccataaca	ggcccggttt	ctgactcaca	gtattcggca	ggccagggtg	11400
aaatcacccg	ctctactcat	gagaggatta	ttgaggtttg	caaccgtgtc	tgtgcttccc	11460
tgcaataagc	gcctaacaac	tggttcaaat	cgctcgctcc	gctcgctggg	accggcatag	11520
ccggcccctt	aaccaagcgt	tagatgcaaa	taacttgagg	ggcacatgca	agactttggg	11580
tccagacgaa	atgcatcatt	agaggacagg	gctgcggctg	agtctgttat	tgaacgtggt	11640
tatcttgcca	tacagcagct	ttgcacagag	actggtgacg	taagaaatcg	gcttcaaata	11700
gccgttatga	ctctattgcc	ccttcaggcg	cgtaacttcc	ccattgcgtt	gcagcaagac	11760
ttcgattgga	ttgtcagaga	atcaacccaa	tacaaatcac	catatccgca	gtttcggggc	11820
gaccttgaag	caacgatgat	gcgaataaag	aactcaactg	ggcaaaaaat	cgcgcaaaga	11880
atthttcaata	tttactcgtc	gctacaagac	attcgagggt	ttcccctgct	tgaatacagg	11940
gcaatagatg	agtaagcatc	taacaattgg	ttaaaaccgt	tcgcttcgct	cactgggacc	12000
ggctaaagcc	ggccccttaa	ccaaacgtta	ggtaaccaag	ggaaattcac	ttgagttggt	12060
atgtattggg	cacaaacaac	cgccattaaa	ggacgggttt	atagtaaatt	tcatcggtact	12120
gttgaactaa	aatgcttata	cgctttgctc	tactacttgc	tgttatgctc	ctcgctgcat	12180
gctcgtcaaa	gcaaaatcca	acgccgaagt	gtactgccag	cgtccccccg	ccctctttac	12240

```

ccgaaacatc cacagtatgc ctaggggaaa gatgtaattg ggaggtgcta tttccgtcag 12300
gaaaataccc tgcattccaca gaaggctgca gggcgctgtt ggtgcagaac cagccttctt 12360
cctacccgcg agaagcactt gatcagtgtg ttgaggggta cgcttgggta gcggtttttc 12420
tgaatgccga cgggggtccaa acatcagcaa aggtacttca atcatcgaat aaaattttcg 12480
acagaaatgc cttgctacag gccagtaata tattttttga gcctatgaaa tgtcaatccg 12540
agcgttatga ttccggttgt ctgatgccat taaactaccg catactcccc tagtagcggg 12600
attgatcctt acaaaattca ctacttacgt ccaagttgaa gtaggcagtt taacaactgg 12660
ttcaagccgc tcgcttcgct cactcgggac cggctaaatt cgccccctta ggcaaactgt 12720
aactatcaga agggcggttg atgtcaagat ttgcgctcgc gttgattcac ggagtaccaa 12780
cgggttttct tgtcatttgt actttgtttg tctgtttcat ctacctcaac cgattcgaga 12840
aagttggagg atactcagac ggggtggggt ttggtggaag agttgtctgc gcatctatag 12900
ctatggtttt cgtgtccgca gttggccatc ttcttattga agcggcagtc aactggggggc 12960
tgcagcagct tggttatgag ctgccaaact atgaaaaaag aaggacttgt agtagctgca 13020
agccgagcac tccaggtgac tacatgttgc gcttgctcct cgggggtgtg cttggcgccg 13080
gctcggcaat ttggctctgg acgcgcctgg cgctccgata tgcgctgttt cgcggcgaaa 13140
actgatagct gaaccttcca tcgaggagat gcaaaagcgc tgctgcgcgc catctacaaa 13200
gaccgaagc acctcatcca ggcgctctca gcccgagcct gactggctgt ggctatcaac 13260
acctcttcga taccactacc cgccagaaac gacaaaagccc tgcaaaaagc agggctttgt 13320
ctttggggat ctggagcggg cgaagggaat cgaaccctcg tcatgagctt gggaagctca 13380
ggtaatgcc ttatacgacg cccgctcggg cggctgactt tttaccagaa tcgcccggga 13440
aggtgaagcc gggcgcgctt cttgcgcccg ttttattgcc gggcgcttca tagcgccacg 13500
gcccgtggct ctcgttccac gctgcgtgcg tggccctgcg tgggtgccag caggaaggcc 13560
agcagggcat cgcggtctg catccaggcg gccttgtgtt ccatgtcgag gaagtggccg 13620
gcctgggcca tgggtcggaa ctgcagtggt cgcacgtact gggagaacag gcgcgcgtca 13680
gccgggtgg tgtactcgtc ccactcgccg ttgacgaaca gcagcggtat ctgatctgc 13740
ccggcgaagc tgacgcagga gcgcccgcg ttgttcagca cggtttccac gtggtgactc 13800
atgtgctcat attcatagcg ctccaggccg gtgacgtgtc gatggttgta gcgcttgaa 13860
agcgagggca ggtgcttgcc gatggtgccg ttgagcacca tgccgatgct ctgcgggtcg 13920
cactcgcgca tcaccaccag gccggcgcg caggtagcca gcatggcgct gttgacgate 13980
ggcgagaagg agttgatcac cgcacgctcg atccgcgatg gacgccgggc cagcgccctg 14040
aggggtggca tgccgcccc ggagaaagga cagcacgctg ttcgcaggcg aaaatgttcg 14100
accagctcca ggaagatgtc ggcttctttc ctgcgsgctg aag 14143

```

<210> 2

<211> 7300

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: genomic DNA of
Pseudomonas Alicaligenes NEB#585 (ATCC 55044)

<400> 2

```

aagcttcttg tacgaacctg gggcgctcc ggcacgcaca agggcatcga catcttcgcc 60
cgccagggca ccccggtgct cgccccagc tacggcatcg tgggtgtttcg cgaagagctc 120
gacatgggcg gcaagggtact gctgatgtc ggccccaaat ggcgctgca ctacttcgcc 180
cacctcgaca gctacagcgc cctgcccggc caaccgtac ttcccggcgc cccactcggc 240
acggtaggca gcaccggca cgccagggc aagccgcccc atctgcaacta ctgatcgtc 300

```

accctgttgc cctatccctg gcgctgggac aacagcactc agggctggaa gaaaatgttc 360
 tacctcgacc ccacgccaat gctgaacgaa gcggcagtag acagccgaaa aaccagccag 420
 tagcgtcgca ggggaatgca ccaccggtct tgcccgatcc gcctgtcctt ttaccaatcg 480
 cagaagagtc gcttttgtcg aatcgctgtg gaggaaaaac aaggacttgc tggacgacaa 540
 ggaacgttat gcgacacaag tggcggaata aattacgcca tttgtgtcgt ctacttatag 600
 ttatatgctg atctagatat gaagtacaaa aacataaaat cagcaatcca caatttcggg 660
 cacagctttg taagctcagt gaactatggt gaccatgatt tcgttgccga cgaaattggg 720
 aagattcaca agaaaggcta tgatattgaa ataaactggc ttacaaggga gttcaagccc 780
 gctcagcttg agtcagagag aataaaaaaa tcaattgggt attggggtga caacctaaag 840
 aaacattgtg catcccatag cgtaaatctg gaaaatctat gttctttatc gtttatctgg 900
 ccgacaggtc aaagtaaata catgcatgcc attgacgaca aaggcacaga acacaaaatt 960
 tacatcaatg aagcgcagtg atacgcatat aacaattggg tcaaaccgtt cgctgcgctc 1020
 actgggacgg gctaaagccc gcccttaac caaacgttat gcgagccacc atgaatagcg 1080
 aagaattata caaaaaggct atggagttag agtccaaatg cgagcataaa gcggcaattt 1140
 caacttaca agaaattggt aagaaatcta acgatcctcg acacttcac gcattcggag 1200
 tttgcctcca aaaatgtggt cactggaagc aatccatcga ggtattagaa tcaggaattg 1260
 cactgaagcc tcaactattgc gagggtagtg ctctcttatt ttagcaaaa gcacttttta 1320
 aatcaggcaa aaaaggcctt gcgataaagc aatggcaaca tgtatcaaaa atgcaacctg 1380
 agtacccaag ttatgagctt gtgcaaaatg aagccaagaa aatgcttgca caaaacgcat 1440
 aacaattggc tcaagccgct cgctccgctc actcggacgt ccgtaagcta cgcttcggc 1500
 cgcccttag ccaaacgtta ggggccaaga tggatcttcg ccagacaaag ccaatactag 1560
 ttacagtctt agccactgcc ttggtgccat tggtttttgg ctggtatgcg tattgggaaa 1620
 atcctcaagg catacttttg tactctcggg tggccggcca tccccatcct cagggtctc 1680
 cagcatttcc tattggagta atggttgggc tggccgcttc atttctgctc tctttgctt 1740
 ttgtaggcct agggggaatc gctgcataca tagcaagttc agtgagctca aaggctaggg 1800
 ctaagctgtt ttgcaaaatc gcagtcacat ccctggctac ttcaactata ggagctgcag 1860
 tctatgcaat gctcccctaa caaatgggtc aaagccgttc gcttcgctca ctcgggaccg 1920
 gctaaagccg gcccttaac caaacgttag gcagcacata tgactcgttc gtgcctatac 1980
 atgtttatcg cctcagcctt gatagcgtgc ggcgatccac ctctattggg tacgccactg 2040
 ccaaatggct acaatttcca ttccaacggc ggggagtttg gctacatcaa gaatccagat 2100
 ggattaaggg tcgccgagta ctttgggtatt cgtaatgatg gtcgcgaaac ctggtgcact 2160
 gacttttcat gggaaagcga tatcgtcatt tgtaagctta ttgaatatag ccagcatgga 2220
 tttgacgcat cgcatacaga gttttctgta cttgacacaa aaactagcga ggttagggta 2280
 tttcccgatc aagcgtctgc tcaaaatttc tgggcgcgac gctttaattc aggactacct 2340
 cagcttcacc ggcactaccc ttcaacctca gagaagtaat attttgtgtg tcagtgcagc 2400
 ctaacaatgc gctcaactgc cgctcacttc gttcgtgga cagtcaaaag ctgcgctttt 2460
 gcctgcccgt tagcttaatc gttagaggct tatttagctc atgcgcatag acatagactt 2520
 ttcaatatcc acgctcgcac cgctcgaccga aggcgtaata tcaggaaaaa tcgaggtcag 2580
 tgaactacct agaactggcg agataatttc attctccttt gcgccaaca agtctaaatt 2640
 cccggcagag ccaagattca acccgttgct taaagttgag agagtgatc atagcgtaaa 2700
 tggtcagagt ccagctcttc agttagagaa tctgatgcta ccaaacagag aaagtgtcgc 2760
 tgaagtcaact gctttcctag agcaaggctt tggcctattt ttcagccaa ccggtgagta 2820
 atcctctaac aatgcgctca aatcgctcac tacgttcgct gggaccggct aaagccggcc 2880
 ccttagctta atcgttagag gtcagcacat ggcagtgcag caactcgggc caaccacagt 2940
 atccgtaacc gaatttgcag gggacggaag cgatcttggg aatactgagg ccaatgaatt 3000
 ctggtcacag ctctctgctc agcttcaaaa aatagctatc tctgagtttt tagctggcaa 3060
 tcgccccagc agcattcttc gcaacgacce acgaaacatt attgttctct cattttcggc 3120
 gccgcaaag ttcattaaaa tcaaccactg gctctctgcg tgtacacaca gaatttcaac 3180

acggaaatta	ctgctacgac	ggaaacggcc	tgtacttacg	aaaatttaga	gtctggcgac	3240
tttcttgcac	tgcacacagc	ggcgttggtg	catgccctct	aacaattggt	tcaagtcgtt	3300
cgcttcgctc	actgcgggac	cggctaaagc	cggccccctta	accaaacggt	agggcaccgc	3360
gcatgagaaa	tgaagacgga	accttttgca	aagactgcca	ccatcaactt	gatgaaacac	3420
tagcatctag	cgcaaattac	tcatgcccc	actgcggctc	cacaaaaaaa	tacatgaaca	3480
tgtccatcac	tgatggaatt	ggcctatacg	actctttggg	tgcccaagct	aaagatccaa	3540
gttaccggc	aaaagaaaaa	tcagatggga	aacatttgtt	ggctgggaac	gcagtcataa	3600
actgcaaaaa	atggtttaca	agacaagaac	tatcgatcga	accaatgacg	cataccaaga	3660
aatagtagtc	gaccttaaaa	cagggggaat	aattcatcac	tgtgaagagc	cactttcaga	3720
gcayttkggc	catggcaccg	caaaacccaa	gccctaacaa	atggttcaag	tcactcgctt	3780
cgctcggttcg	ggaccggcta	aagccggccc	cttaacccaa	cgtagaggt	tacctgtgac	3840
agattcgcg	ccgttactga	tcctgcctc	gcaatatgat	acgagcggtc	ttctcgccga	3900
atggcaatgg	ctcaccccc	aaacggatac	gccacttttt	atttccatat	tcggagactg	3960
ggatatttggc	aaccccaatg	gaagtgtgtg	ggttctttca	ctcctaaaag	gcacttacga	4020
gcaagtagcc	gcaaactcta	acgagtacaa	caccctcaac	aaatcggcgg	agtggattga	4080
tcaaacattc	atcgccagtt	ggcagtcctat	tgccgcaggc	catgggttaa	tcacagaacc	4140
aaaccaatgc	ctcggctgga	aggttcaccc	attattaggt	ggaagttttg	agccagccaa	4200
tctccaactc	ttcaacatgt	cgggtgatca	atcgcttatg	ggtcaacttc	atcgacagct	4260
tagccaaaaa	caaaccgccg	caagtaaaaa	accatgggtc	cagttctggt	aacctctaac	4320
aactggttca	agtcgttcgc	ttcgctcact	gcgggaccgg	ctaaagccgg	ccccttaacc	4380
aaacgtagg	cgcaagggca	atattgggta	ttcagcaccg	agccagggaa	cacaatcacc	4440
gcatcagcgc	agtgttcctg	aatcgaatgg	tcgcctgaca	gtagaggccg	ttatttgtgg	4500
ccagcaaagg	agttgctttc	aaagaatgta	cacgtcacaa	ataacttccg	gggcaaaac	4560
cgacacgccg	tgcgcaccgt	cggcgaagcg	cagcgctggc	ctcacttgca	gcgtacggct	4620
gggcaatcta	acaattggct	caagtcgttc	gcttcgctca	ctcgggacgt	ccaatagctg	4680
cgctattggc	cgccccctag	ccaaacgcta	ggccaacata	ctcaacgcat	gaaaacaaaa	4740
tatcacataa	atataattat	atttctcgaa	atcataattc	cttttagcacc	aataatttgg	4800
gcaattttca	ctcagtcaag	ccccggcttt	ggcccaaccc	ttatatcaat	gctcatcctg	4860
cacatcgctg	gacgaataat	tagccgaagc	atccctgcca	gctgtgactc	atgtgctgaa	4920
aaaataaaac	ccaaaggaac	ctccgcaatc	tactacaact	gtcaaaagtg	tggatttaaa	4980
tactcaaaaa	cacttaacag	cagcaaaaac	ttccataacc	actaaccaga	aaatcactaa	5040
ggcgccatca	tgttataagc	gccgtaagca	ctaaagactt	gtacaagcct	aacaactggt	5100
tcaagtcgtt	cgcttcgctc	actgcgggac	cggctaaagc	cggccccctta	accaaacggt	5160
agggcactca	atgcatcgct	tcctagccac	atgcctacta	gctacatcta	ttaaggcata	5220
cgcagaacct	gaaaataata	tcgactgcag	caacgcattc	tcaacgccgg	acattgaaca	5280
ttgcgcacat	atctctcttg	agaaaacaga	gaaagagcta	aatttagcat	atcaaaaaatt	5340
agtcaaagac	ctttctcagc	caaacaatga	atacgaaaat	ttcaccgagt	acaggaaaaa	5400
acttttaacg	gctcaaagag	catggatcgc	gttcagggaa	gcaaactgtg	ccactcagta	5460
cgaaatgcac	agatctggca	ctattcgcaa	cagcatctat	ctagcctgca	aagaaaagcg	5520
tgccaagcag	cgaataaagg	gagcttcaaa	attatgctcc	gtactagccc	taacaaatgg	5580
ttcaagtcgt	tccgcttcgc	tcactgcggg	accggctaata	gccggccccct	taaccaaacg	5640
ttaggccgac	aatcgcaatt	cctaggactg	cacgtgaact	ggatccgcaa	aatgtttcgg	5700
cgcacagcac	tagcgccgcc	ccaacatcgc	gaggacgaag	ctgtcagtac	aagccaagaa	5760
ggaacgcctc	cctttcgtca	tttgacagtt	gagaattcat	ggggaagttg	agggcgggagc	5820
tattccttca	gtcaccaccc	gagaacatcc	tcagaagatc	tgtttctcgt	ttggcggtgcc	5880
taagttcggg	tgggtcaacgt	tcgagatcca	tttcgtcgga	aatggccact	tcactctcgcg	5940
catctctgac	actccaaatg	acttctacgg	tgacttggct	atcgccctgg	ctgagcagaa	6000
aagttctttt	tcggtagcgg	cgcaccttga	gcctgagacc	tttgcccttct	acatcggttga	6060


```

ttcgacaatg tacttgtgca agttcgatga attcgacgat tatgagtccg ccgccgaaag 6120
ccacgaacag ttggtctccc acagctttat gtccattgaa gtatctaggg agtactttca 6180
gaagtctctc aggaccttgg ccgtccaatg gccggatagc ctttcaagag actgggcgca 6240
cccatttcca cgtgcgcaga ttgaaggctg actgcctaac tattcgctca agcgggcagc 6300
gttaggcgcc ctcatcggga gtcacgctat ggcaaccgga gaagaaacag aagtagccat 6360
tgctgctctt cgcagcgaac tcaatggcaa cgaatcgga tacagctttc acattcccgg 6420
ttgggcgcca gaaacatcag tcatgggatt tcgctggatg caaagccaac tgtgggaagg 6480
cttctacgta agctatcgcg tagagcactc ggccaagcgc gtcgaattca agtgctggga 6540
gtacggcgag cccgagccgt cttggctgca agttggctag ggggccggca agatgcaatc 6600
gcggcgagcg cctaactctg cagtcaaccg gacaccaaac tgtacgcagt ttggttccct 6660
ccgctgcgct ccggtgccgg ttactttcaa cgttaggcaa ctcatgatgag tgctccagac 6720
gcagaacttc tcgcattgtt agcctaccga atggaagcta tttccattgg gcatttggca 6780
ttacgccatc acatgacgtg ggacgaaaca ctttcaatgg aggtgtactt caatggcata 6840
caagtactcg agggaaaggc cacgggtttc actaatgcag ccattgagtc cgcaattatt 6900
cattgcaggg caatccttgg agtttgttgg gctgcagtcc tccagacact cttccacaga 6960
aattgcagag cgcactcgac gcaacaatcc cgatgactat ggcatgaaa gcttcaatgg 7020
cttatcaatg ctaaccaagg aaaaagcact agcctactac tctggcgagc tgccagaagc 7080
ggaagttgct ctacgctcga tattccactc agcgaacaaa gggcttgcac aactacagt 7140
gtcctttacg cgtgacagtg gcgacgccca cctgatggaa attgcatttc gcacgtacc 7200
aatcctgctt gtaaattggt tctacgtcc actggaaatc acgccaccaa aatatgaact 7260
gatttcacgc ccaagagtcg ccataacaaa tggttcaagt 7300

```

<210> 3

<211> 7300

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: genomic DNA of
Pseudomonas Alicaligenes NEB#585 (ATCC 55044)

<400> 3

```

aagcttcttg tacgaacctg ggggcgctcc ggcacgcaca agggcatcga catcttcgcc 60
cgccagggca ccccggtgct cgccccagc tacggcatcg tgggtgttctg cgacgagctc 120
gacatgggcg gcaaggtagt gctgatgtc ggcaccaa atggcgctgca ctacttcgcc 180
cacctcgaca gctacagcgc cctgccccgc caaccgtac ttcccggcgc cccactcggc 240
acggtaggca gcaccggcaa cgcccagggc aagccgcccc atctgcacta ctcgatcgtc 300
accctgttgc cctatccctg gcgctgggac aacagcactc agggctggaa gaaaatgttc 360
tacctcgacc ccacgccaat gctgaacgaa gcggcagtag acagccgaaa aaccagccag 420
tagcgtcgca ggggaatgca ccaccggtct tgcccgatcc gcctgtcctt ttaccaatcg 480
cagaagagtc gcttttctcg aatcgctgt gaggaacaa aaggacttgc tggacgacaa 540
ggaacgttat gcgacacaag tggcggaata aattacgcca tttgtgtcgt ctacttatag 600
ttatatgctg atctagatat gaagtacaaa aacataaaat cagcaatcca caatttcggg 660
cacagctttg taagctcagt gaactatggt gaccatgatt tcggtgccga cgaaattggg 720
aagattcaca agaaaggcta tgatattgaa ataaactggc ttacaaggga gttcaagccc 780
gctcagcttg agtcagagag aataaaaaaa tcaattgggt attggggtga caacctaaag 840
aaacattgtg catcccatag cgtaaatctg gaaaatctat gttctttatc gtttatctgg 900
ccgacaggtc aaagtaaata catgcatgcc attgacgaca aaggcacaga acacaaaatt 960

```

tacatcaatg	aagcgcagtg	atacgcatat	aacaattggt	tcaaaccggt	cgctgcgctc	1020
actgggacgg	gctaaagccc	gccccttaac	caaacgttat	gcgagccacc	atgaatagcg	1080
aagaattata	caaaaagggt	atggagttag	agtccaaatg	cgagcataaa	gcggcaattt	1140
caacttacaa	agaaattggt	aagaaatcta	acgatcctcg	acacttcac	gcattcggag	1200
tttgccctcca	aaaatgtggt	caactggaagc	aatccatcga	ggtattagaa	tcaggaattg	1260
caactgaagcc	tcactattgc	gaggggtgatg	ctcgtctatt	tttagcaaaa	gcacttttta	1320
aatcaggcaa	aaaaggcctt	gcgataaagc	aatggcaaca	tgtatcaaaa	atgcaacctg	1380
agtacccaag	ttatgagtct	gtgcaaaatg	aagccaagaa	aatgcttgca	caaaacgcat	1440
aacaattggc	tcaagccgct	cgctccgctc	actcggacgt	ccgtaagcta	cgcttccggc	1500
cgccccttag	ccaaacgtta	ggggccaaga	tggatcttcg	ccagacaaag	ccaatactag	1560
ttacagtctt	agccactgcc	ttggtgccat	tggtttttgg	ctggtatgcg	tattgggaaa	1620
atcctcaagg	catacttttg	tacactccgg	tggccggcca	tccccatcct	cagggctctc	1680
cagcatttcc	tattggagta	atggttgggc	tggccgcttc	atttctgctc	tctttgcttt	1740
ttgtaggcct	agggggaatc	gctgcataca	tagcaagttc	agtgaagctc	aaggctaggg	1800
ctaagctgtt	ttgcaaaatc	gcagtcacat	ccctggctac	ttcaactata	ggagctgcag	1860
tctatgcaat	gctcccctaa	caaatggttc	aaagccggtc	gcttcgctca	ctcgggaccg	1920
gctaaagccg	gccccttaac	caaacgttag	gcagcacata	tgactcgttc	gtgcctatac	1980
atgtttatcg	cctcagcctt	gatagcgtgc	ggcgatccac	ctctatttgt	tacgccactg	2040
ccaaatgggt	acaattttcca	ttccaacggc	ggggagtttg	gctacatcaa	gaatccagat	2100
ggattaaggc	tcgccgagta	cttttggtatt	cgtaatgatg	gtcgcgaaac	ctggtgcact	2160
gacttttcat	gggaaagcga	tatcgtcatt	tgtaaagctta	ttgaatatag	ccagcatgga	2220
tttgacgcat	cgcatacaga	gttttctgta	cttgacacaa	aaactagcga	ggttagggtta	2280
tttcccgatc	aagcgtctgc	tcaaaatttc	tgggcccgcac	gctttaattc	aggactacct	2340
cagcttcacc	ggcactaccc	ttcaacctca	gagaagtaat	attttgtgtg	tcagtgcagc	2400
ctaacaatgc	gctcaactgc	cgctcacttc	gttcgctgga	cagtcaaaag	ctgcgctttt	2460
gcctgcccg	tagcttaatc	gttagaggct	tatttagctc	atgcgcatag	acatagactt	2520
ttcaatatc	acgctcgcac	cgtcgaccga	aggcgtaata	tcaggaaaaa	tcgaggtcag	2580
tgaactacct	agaactggcg	agataatttc	attctccttt	gcgccaaaca	agtctaaatt	2640
cccgccagag	ccaagattca	acccgttgct	taaagttgag	agagtgattc	atagcgtaaa	2700
tggtcagagt	ccagctcttc	agttagagaa	tctgatgcta	ccaaacagag	aaagtgtcgc	2760
tgaagtcact	gctttcctag	agcaaggctt	tggcctat	ttcagcccaa	ccggtgagta	2820
atcctctaac	aatgcgtca	aatcgtcac	tacgttcgct	gggaccggct	aaagccggcc	2880
ccttagctta	atcgttagag	gtcagcacat	ggcagtgca	caactcgggc	caaccacagt	2940
atccgtaacc	gaatttgcat	gggacggaag	cgatcttgga	aatactgagg	ccaatgaatt	3000
ctggtcacag	ctctctgctc	agcttcaaaa	aatagctatc	tctgagtttt	tagctggcaa	3060
tcgccccagc	agcattcttc	gcaacgaccc	acgaaacatt	attgttctct	cattttcggc	3120
gccgccaaa	ttcattaaaa	tcaaccactg	gctctctgcg	tgtacacaca	gaatttcaac	3180
acggaaatta	ctgctacgac	ggaaacggcc	tgtacttacg	aaaatttaga	gtctggcgac	3240
tttcttgcat	tcgacacagc	ggcgttggtg	catgccctct	aacaattggt	tcaagtcgtt	3300
cgcttcgctc	actgcgggac	cggctaaagc	cggcccctta	accaaacgtt	agggcaccgc	3360
gcatgagaaa	tgaagacgga	accttttgca	aagactgcc	ccatcaactt	gatgaaacac	3420
tagcatctag	cgcaaattac	tcatgcccc	actgcggctc	cacaaaaaaa	tacatgaaca	3480
tgtccatcac	tgatggaatt	ggcctatacg	actctttggg	tgcccaagct	aaagatccaa	3540
gttaccgggc	aaaagaaaaa	tcagatggga	aacatttggt	ggctgggaac	gcagtcataa	3600
actgcaaaaa	atggttttaca	agacaagaac	tatcgatcga	accaatgacg	cataccaaga	3660
aatagtagtc	gaccttaaaa	caggggggaat	aattcatcac	tgtgaagagc	cactttcaga	3720
gcayttkggc	catggcaccg	caaaaccaa	gccctaaca	atggttcaag	tcactcgctt	3780
cgctcgttcg	ggaccggcta	aagccggccc	cttaaccaa	cgtttagagg	tacctgtgac	3840

agattcgcgc	ccgttactga	tccctgcctc	gcaatatgat	acgagcgttc	ttctcgcgca	3900
atggcaatgg	ctcaccceca	aaacggatac	gccacttttt	atttccatat	tcggagactg	3960
ggtatttggc	aaccccaatg	gaagtthgtg	ggttctttca	ctcctaaaag	gcacttacga	4020
gcaagtagcc	gcaaactcta	acgagtacaa	caccctcaac	aaatcggcgg	agtggtattga	4080
tcaaacattc	atcgccagtt	ggcagtctat	tgccgcaggc	catgggttaa	tcccagaacc	4140
aaaccaatgc	ctcggctgga	aggttcaccc	attattaggt	ggaagttttg	agccagccaa	4200
tctccaactc	ttcaacatgt	cgggtgtatca	atcgcttatg	ggtcaacttc	atcgacagct	4260
tagccaaaaa	caaacccecg	caagtaaaaa	accatggttc	cagttctggt	aacctctaac	4320
aactggttca	agtcgttcgc	ttcgctcact	gcgggaccgg	ctaaagccgg	ccccttaacc	4380
aaacgttagg	cgcaagggca	atattgggta	ttcagcaccg	agccagggaa	cacaatcacc	4440
gcatacgcgc	agtgttcctg	aatcgaatgg	tcgctgaca	gtagaggccg	ttattttgtg	4500
ccagcaaagg	agttgctttc	aaagaatgta	cacgtcacaa	ataacttccg	gggcaaaaac	4560
cgacacgccg	tgcgcaccgt	cggtaagcg	cagcgctggc	ctcacttgca	gcgtacggct	4620
gggcaatcta	acaattggct	caagtcgttc	gcttcgctca	ctcgggacgt	ccaatagctg	4680
cgctattggc	cgcccccttag	ccaaacgtta	ggccaacata	ctcaacgcat	gaaaacaaaa	4740
tatcacataa	atataattat	atttctcgaa	atcataattc	ctttagcacc	aataatttgg	4800
gcaattttca	ctcagtcaag	ccccggcttt	ggcccaaccc	ttatatcaat	gctcatcctg	4860
cacatcgctg	gacgaataat	tagccgaagc	atccctgcca	gctgtgactc	atgtgctgaa	4920
aaaataaaac	ccaaaggaac	ctccgcaatc	tactacaact	gtcaaaaagt	tggattttaa	4980
tactcaaaaa	cacttaacag	cagcaaaaac	ttccataacc	actaaccaga	aaatcactaa	5040
ggcgccatca	tgttataagc	gccgtaagca	ctaaagactt	gtacaagcct	aacaactggg	5100
tcaagtcgtt	cgcttcgctc	actgcgggac	cggctaaagc	cggccccctt	accaaactgt	5160
agggcactca	atgcatcgct	tcctagccac	atgcctacta	gctacatcta	ttaaggcata	5220
cgcagaacct	gaaaataata	tcgactgcag	caacgcattc	tcaacgccgg	acattgaaca	5280
ttgcgcacat	atctctcttg	agaaaacaga	gaaagagcta	aatttagcat	atcaaaaatt	5340
agtcaaagac	ctttctcagc	caaacaatga	atacgaaaat	ttcaccgagt	acaggaaaaa	5400
actttttaacg	gctcaaagag	catggatcgc	gttcagggaa	gcaaactgtg	ccactcagta	5460
cgaaatgcac	agatctggca	ctattcgcaa	cagcatctat	ctagcctgca	aagaaaagcg	5520
tgccaagcag	cgaataaagg	gagcttcaaa	attatgctcc	gtactagccc	taacaaatgg	5580
ttcaagtcgt	tccgcttcgc	tactgcggg	accggcta	gcccggccct	taaccaaaacg	5640
ttaggccgac	aatcgcaatt	cctaggactg	cacgtgaact	ggatccgcaa	aatgtttcgg	5700
cgcacagcac	tagcgccgcc	ccaacatcgc	gaggacgaag	ctgtcagtac	aagccaagaa	5760
ggaacgcctc	cctttcgtca	tttgacagtt	gagaattcat	ggggaagtgt	aggggcgagc	5820
tattccttca	gtcaccaccc	gagaacatcc	tcagaagatc	tgtttctcgt	ttggcggtgcc	5880
taagttcgga	tggtaaacgt	tcgagatcca	tttcgtcgga	aatggccact	tcactctcgg	5940
catctctgac	actccaaatg	acttctacgg	tgacttggct	atcgccctgg	ctgagcagaa	6000
aagttctttt	tcggtagcgg	cgcacettga	gcctgagacc	tttgcttctt	acatcggtga	6060
ttcgacaatg	tacttgtgca	agttcgatga	attcgacgat	tatgagtccg	ccgccgaaag	6120
ccacgaacag	ttggtctccc	acagctttat	gtccattgaa	gtatctaggg	agtactttca	6180
gaagtctctc	aggaccttgg	ccgtccaatg	gccggatacg	ccttcaagag	actgggcgca	6240
cccattttcca	cgtgcgcaga	ttgaaggctg	actgccta	tattcgctca	agcgggcagc	6300
gttaggcgcc	ctcattcgga	gtcacgctat	ggcaaccgga	gaagaaacag	aagtagccat	6360
tgctgctctt	cgcagcgaac	tcaatggcaa	cgaatcgga	tacagctttc	acattcccgg	6420
ttgggcgcca	gaaacatcag	tcaggggatt	tcgctggatg	caaagccaac	tgtgggaagg	6480
cttctacgta	agctatcgcg	tagagcactc	ggccaagcgc	gtcgaattca	agtgtgggga	6540
gtacggcgag	cccagaccgt	cttggctgca	agttggctag	ggggccggca	agatgcaatc	6600
gcggcgagcg	cctaactctg	cagtcaaccg	gacaccaa	tgtacgcagt	ttggttccct	6660
ccgctgcgct	ccggtgccgg	ttactttcaa	cgtaggca	ctcagatgag	tgctccagac	6720

```

gcagaacttc tcgcattggt agcctaccga atggaagcta tttccattgg gcatttggca 6780
ttacgccatc acatgacgtg ggacgaaaca cttcaatgg aggtgtactt caatggcata 6840
caagtactcg agggaaaggc cacgggtttc actaatgcag ccattgagtc cgcaattatt 6900
cattgcaggg caatccttgg agtttggttg gctgcagtcc tccagacact cttccacaga 6960
aattgcagag cgcactcgac gcaacaatcc cgatgactat ggcattgaaa gcttcaatgg 7020
cttatcaatg ctaaccaagg aaaaagcact agcctactac tctggcgagc tgccagaagc 7080
ggaagttgct ctacgctca tattccactc agcgaacaaa gggcttgac acactacagt 7140
gtcctttacg cgtgacagt ggcagccca cctgatggaa attgcatttc gcatcgatcc 7200
aatcctgctt gtaaattggc tctacgtcc actggaaatc acgccaccaa aatatgaact 7260
gatttcacgc ccaagagtcg ccataacaaa tgggtcaagt 7300

```

<210> 4

<211> 12956

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: genomic DNA of
Pseudomonas Alicaligenes NEB#585 (ATCC 55044)

<400> 4

```

gccggcctgc aacagagctt caaggccgcc ggtgtcggca ttcggcgacc gcgtgccgcc 60
tttatgcaa cacctggcag acggtggtcg gcatgttcgc caccgccagc ttggcgccaa 120
ctggtcgctc tgctcgccgg acttcggcac ccagggcgtg atcgaccgtt tcggccagat 180
cgaacccaag gtgctgatcg ccgccgccgg ctaccgctac gccggcaaga acctcgatct 240
gaccgccaa ctcaacgaaa tctcgaacg cctgccctcg ctgcagcaac tgggtggtgg 300
gccctactcc aacccgacag ccggggcggg cgacttccgc agcgccgcc gtgtcagcct 360
gtggcaggac ttctaccagg ccggcggtga accgaagttc accccgggtg ccttcgagca 420
gccgtgtac atcctctatt ccagcggcac cacgggcgtg cccaagtgc tctccacgg 480
tgtcgggtgg accctgctgc aacacgtcaa ggaactgggc ctgcatacgg acctgacggc 540
cgacgacag ctgttctact acaccacctg cggctggatg atgtggaact ggctggtctc 600
agggttagcc ttggggcgcca gcctggtgct gttcgacggc tcgccgttcc acccaggtgc 660
cgagcgctg atcgacctga tcgacgccga gaacatcagc ctcttcggta ccagcgccaa 720
gttcatcgcc gccctgaaa aggcggcgc caagccgcgc gagacgcaca ggctgcgccg 780
cctgaaggcc atcctctcca ccggctcgcc gctggccac gagagcttcg agtacgtcta 840
ccgcgatatc aaaagcgacg tctgcctgtc ctccatctcc ggcggcaccg acatcgctctc 900
ctgcttcgcc ctgggcaacc cgacctgcc cgtgtggcgc ggcgagctgc agtgcaaggg 960
cctgggcatg gatgtgcagg tgtggaacga ggccggccag ccagtcacg ctgagaaagg 1020
cgagctggtc tgcgccgcc acttcccgtc gatgccggtc ggcttctgga aggacgccga 1080
tggcgagaaa ttccgtagcg cctacttcga cacttcccc ggctctggg cccacggcga 1140
ctatgccgag atcaccgaac acgatggcct ggtgatccac ggccgctccg acgccgtgct 1200
caaccccggc ggctgcgca tcggcactgc cgagatctac cgccaggtgg agaaggctga 1260
gcaggtgctg gattccatcg ccatcgccca ggactgggaa ggcgacgtgc gcgtggtgct 1320
gttcgtgcgc ctgcgtgacg gcgtggcgct gagcgacgaa ctgcaggcac agatccgcca 1380
ggtgatccgc gccaacacca cgccgcgcca tgtccgggcc aaaatcatcg ccgtcgccga 1440
catcccggc accatcagcg gcaagatcgt cgagcttgcc gtgcgcaacg tgggtgcacgg 1500
caagccagtg aagaacaccg atgccctggc caaccgcaa gcacttgagc tgtatcgca 1560
tctgccgcaa ctgcagtcac gagccggtaa gcgacaccgt aagggaatg gactgccact 1620

```

ccagcatcta	tagtggatgc	gcataacecg	gacaggatgt	tgctgatgca	ggtggttttc	1680
tgectgctgg	ttgccttgct	gtatgtcggc	ggcgtggccg	ctgacgaacc	actggccttg	1740
catatgccgg	acgccccgcc	gctgacctg	taccacgacg	agcgcgcca	cggcatggtc	1800
ggcgacatca	cgctcgcggc	catcactctc	agcgcccgaa	cggcacgcat	cgtcgacgag	1860
ccctggggcca	gagcccaggt	gaacgtcgcc	agcgcccaga	atcaactgat	catcccgcgtg	1920
tcgcgtaccc	cggagcgtga	gcaacgctac	acctggatcg	ccccgatcat	gccgctggag	1980
cgcgccttct	tcagcctcga	caaacctgtc	agcagcttcg	cgcaggcacg	ccagcgctac	2040
cggcgatatct	gcgtcgggct	cggcacgcgt	caagtggaaa	tcctgcggcg	cgagggtttc	2100
gccgacgagc	agatcatcca	gtcaaaactg	ggcgaaaacc	cggccatcct	gctcgaacgc	2160
gggcgtctcg	atgcctgggt	caccgggatt	cgggaggcgc	tgtacatttg	gcacaaatct	2220
gcggaacagc	gccgcaagct	ttatcagagc	cgggtcctgg	ccagcaccga	cctgtacctg	2280
gcctgctcca	ggatctgctc	cccgcagatc	gtcgagcaac	tgcgggccgc	cgtgctgcaa	2340
ctggaggcca	gcggcgtcag	cccgcgcctg	cgccaggcct	atctaccgca	gctcgatcga	2400
cggtgagcac	ccagcccacg	ctgccaggcc	tatagaacag	atcatccacg	ccgcaggcct	2460
gcgcgggctt	gagcataacg	ccagcactgg	ggcagactgc	gactaccccg	cacaaccccg	2520
gtgacaatat	ggacgttgct	aaaaccctca	agcccggcaa	acccggcacc	aagcgcttgc	2580
aagaacgcta	cggcgagcaa	ctcgtcgccg	tccgctaccg	cctcgaccgc	aaaaccaaca	2640
cccactacac	cacggtcgaa	ctcatcgctg	aacaaaagta	cgccctgtac	aaaaccccg	2700
caccgcctcc	cacacctccg	gtagccctgc	gcactcttcg	ccacgaaaac	gacctccagc	2760
gactgatcag	aagcgccggc	ggcaagtggg	accgtgagaa	tcaggtgtgg	ctgatcgagc	2820
gaagcgaggc	cgagaggctg	gggctggcgg	aacggatcat	ctggacataa	tggctatatg	2880
tggacatcaa	gatgcctagt	aatagccaca	aacaccagc	atcggaact	atgcctaccc	2940
ctaggcatgt	cgtataaaca	ctagttatac	aaatatcata	tgaacgacgc	gaccctaaag	3000
ctagttaatc	aaagacagct	cgtatcggta	atgaataaaa	cgaagtggac	tgagctgtgc	3060
aattcatttg	actgcgagaa	taaagcatct	ccgaatgttc	gctataaatt	aatttacagt	3120
gaacaagaat	tcgggtttttc	aaaaatatgg	tggaatcagc	ttttgcatga	gtgcgaagca	3180
atcgaatgga	ttgatttcaa	actagtattg	cgagaacacc	gtggcaatct	attgccagac	3240
aaagaaattg	atataagcaa	acaattaag	gaagcactac	aggcgcatga	catcccttac	3300
tctgttgaag	gagaaaatct	tagggtttgg	ggctatatta	gcgcagaaaa	gagtccagta	3360
ttcgtataac	aattgggttca	agtcactcgc	ttcgtctcgt	cgggaccggc	taaagccggc	3420
cccttaacca	aacgttagat	gcttatgaaa	aagacagttc	tcatactcgt	cccagcatta	3480
ctactctcag	gatgtggcga	ccctgaattt	cactaccaa	atgggtgacga	atcaaaaaat	3540
ataacgctac	gcattccctaa	gaattacata	aattatttcc	ctggcgtgaa	gtacgaaaaa	3600
gacggacctg	tcgtcatcag	atcttcatat	ccacaattgg	agccactgac	aaaagcccta	3660
ccagaagagc	aaaaagtaac	tgtcagcatt	agtcatttat	ccagcctgga	actcaccacc	3720
caagaaacca	gaaaccccta	ctgcgaaaca	gataaaaagt	ggaaactcct	acaggcgggc	3780
ggcatttcag	gagagtctta	taaattcatc	ggaaaatctc	ccggcagcgc	cagtgcagat	3840
ataacttata	agcccatcaa	aaaaacactt	ggcctttact	gcattacatg	cgtggaaaat	3900
gcaaattgtg	aaattcacgc	agtatctagc	caaggaataa	gctattccgc	atctttataca	3960
gaagacttaa	tgccagataa	gtggcactct	atctacatgg	cagtcgacaa	aatccttagc	4020
aaattttacag	catcgtcgaa	aggcatctaa	caattgggtc	aagtcgctcg	cttcgctcac	4080
tcgggaccgg	ctaaagccgg	ccccttaacc	aagcgttatg	caagcagtca	cccagtagga	4140
aagcaccat	atggagccag	tatgaaattg	agcgacataa	gagctctaata	cattgagtcg	4200
ccaggatggc	gaacagtatt	tgcatttatt	gtccactaa	tcgcagggat	tctgtcggga	4260
atattcgtat	cagaaataac	gcatagctcc	gaaattgttt	ggaaggaatt	ttataaagca	4320
aaaagcttct	acgggctatt	ggctttgagc	ttgtgcatgt	atctttacaa	taaagccatt	4380
tatctacatg	aaagagaaat	ttctcgcttc	ctagacgcag	attactgcac	cgcttacatg	4440
agaagcaaat	gcctgccaga	ggctgcagag	cgatacaaaa	agcttatacg	ctctggcgac	4500

ggcggcgaat	tgaagcaagc	aatggatgaa	ctgaagaagg	tgctcaaagt	aaagtactgg	4560
ccagcccaga	ttttaatgca	aaagtgccgg	cactaaacac	agaaaccaa	gcttctggta	4620
cgaacctggg	ggcgctccgg	cacgcacaag	ggcatcgaca	tcttcgcccc	ccagggcacc	4680
ccggtgctcg	cccctatttg	tacgatgcga	accttaatca	agaagcgta	tcagttagag	4740
ccaataacaa	aatcgaaatc	ctgttcaatt	cgggcggaga	tttttatggc	tttcttgtaa	4800
gcgctaacga	ccgagtgaag	attgagttcg	atacaggaaa	tacctggaca	ggttattacg	4860
ttaaagccaa	tgaaaaagtt	tggcttagat	attcgcttaa	caacgaatgg	ttagggctac	4920
ttgtctagcc	cgcataacaa	gtcgctcaaa	tcgctcactt	cgttcgctgg	gacgggctaa	4980
agcccccccc	ttagcttatt	gttaggcaaa	aaaatagcag	gcaggctcag	taatatgaag	5040
ttcgatagaa	tagctcgtga	agcgtttggc	tcagtgcctg	gtccactggg	gttcagctgt	5100
agtgagtcga	aggcatgcac	cttctataaa	aaagtcggca	ctgagctcta	tcattttgtc	5160
atgccagatc	aattaagcgg	ccaggaaaag	tatgatatta	aagttttttt	ccactcgccg	5220
ctcttagagc	caaccgcag	gaatgacaag	tttccggaca	ccttggggat	tcccacagat	5280
agctggagtt	atcttttctag	ccgtactggc	gttggtccac	gacaagagct	gttttggtgt	5340
cgaacagaag	aaggatttat	gcgtaacttt	gaatcaaagg	taaagccccg	actacttcaa	5400
tttgtagccc	catattttga	ttctatacag	acattggaag	aggctattcc	actaatcaag	5460
agcaggcact	atgtggcagt	ggcgtctacg	ctaaatgcta	actaagcaat	gccaaagtct	5520
tccaccggca	cctccgtatc	ggccttgaca	gatagcagca	atgagtttcc	agcaaaaaacc	5580
aatgcgcgcg	ttgcaaggct	gtttcggggt	agccacagtg	cggtattcat	tacctgcgtc	5640
cgactcgata	ccaattgcct	aacaactggt	tcaaactcgt	cgctccgctc	gctgggaccg	5700
gcgaagccgg	ccccttaacc	aaacgttagg	ctacatatga	gaatcagcgc	agaccagctt	5760
gctcaagaat	cactgactga	gttcggcggt	ctggcggtta	agcttctggc	aacgcgagag	5820
cttagccagt	tgtccgagaa	gtttgggtat	gcactggcct	tcggaaggga	accggcggct	5880
gccatagctg	aggaccttgc	taggtgcttg	tgcgacaaaa	atgcttcgcc	ggcatctgaa	5940
taccccaaaa	tcaccgttaa	gtatttcaag	gaaaacgaaa	gtagtctgtt	ggcactcgta	6000
gagtgttatg	tacaaatgac	cgcaagcgca	aacattcttt	tagagctggg	tgccgcacga	6060
aatggagagg	caataaatct	gtatctagaa	ggcttgagtg	ttgtagccta	acaatgcgct	6120
caaagcgctc	acttcgttcg	ctgggaccgg	cgaagccggc	cccttagctt	aatcgtagg	6180
tgcttcagga	gggatcatgt	cttccacaga	aaacaatagt	gatgactggc	gagaaattcg	6240
agcaagagcg	gactctatcg	ctaattgcat	tttctctatt	tctggcgggg	cacttttact	6300
ttcaatctca	gtcatcctca	gcaacaaaag	tgccgggtac	atcactgcac	aagtggcatg	6360
tattgcgtcc	ctcgcttggt	actgcttgct	ggcgctactg	attctctttc	ttgctcttaa	6420
ggggcatatg	attcttcagg	catactcctc	acaatttcgc	ccaaattacg	tcaataaaca	6480
tcttagatth	cttaatggta	taagctgggc	cattggatta	accgggttta	tttcttctat	6540
tgcaaggcatg	tttcttatgg	ttcgtaccgc	aatacttgcc	gtcggcacct	aacaatgcgc	6600
tcaactgtcg	ctcacttcgt	tcgctggaca	gtcaaaaagc	gcgcttttgc	ctgcccgtta	6660
gcttaatcgt	tagcggtcac	aagtatgcag	attaatttct	atatggcaga	tgaagatcga	6720
agagcgttcc	acgaatacct	atattctcgt	ggcgcatacc	tcggttccgga	gcgttggtcca	6780
accagagata	ttcccatagt	ccaggcggcc	tccgaagagg	caagtgagtg	caaagacttc	6840
aagattttca	agtctgacct	cttccctcag	tccgaatttc	agaacagggc	ttggataacg	6900
tggcatgagc	caacgaaaag	gttctacgtt	catgggcctg	gaattcagta	tcttgtagtcg	6960
ttcactgatg	caaattggaat	ccatcgtggc	cgctctata	tgggccttgt	ttctccgcgt	7020
agctttgttg	agccccacgg	gcaatcagtt	gattgctacg	ctgaaaacga	gaaaaagtac	7080
aaggcgtagg	agaatttcca	taagagttgc	gcgcgctata	tacgcaatca	ctaccgcaaa	7140
gatgaggggtg	gtttctacca	tggcaaagca	agcgatatgg	ctgttcaaaa	ctacggcgctc	7200
tcaaagacgc	agctgtgacc	gctaacaatt	cgctgcaggc	gcgacggccc	tgacggggccg	7260
cggcctgagc	tcaaacgtta	taacctacaa	ggaagaccaa	agtatgcgcc	acctagcaat	7320
agccctctta	ataatgttct	ctactcaagt	tctcgccgac	ggcaagagcg	aaaagataga	7380

gagcctaattg	aaggcacttg	gactagtaga	cacatggaca	caacaaattg	aacaaggaaa	7440
aattttacaac	agaaagatca	gctctcaaat	gctggatcaa	attttatccc	agctgaatcc	7500
aatgaagag	tttcagcaaa	aattcaaaaa	ggcttcagat	aatttcataa	caaaaacaga	7560
atctccatgg	tctccagaaa	aaattgtaga	ggtttgggct	agttactatg	gccagaatt	7620
cacagaggac	gagcttgacc	aattaattgc	attttatact	tcccctcttg	gccaaaaaga	7680
catccgtgtt	actcgcagtt	caatggaaaa	attctcgaaa	tacttccaag	aggccgggca	7740
accaatacta	gaaaaggcca	ccgcagagta	cattcaggaa	atgaagctca	tcgccaagga	7800
atgtaactgt	accaagtagc	ttataacaat	tggttcaagt	cgttcgcttc	gctcactgcg	7860
ggaccggcta	aagccggccc	cttaaccaa	cgttaggcac	tgctatggcc	ttggctcgagt	7920
acgaactgat	catcaatgcg	ccccagacgg	ctgtctatgc	cgcatctcag	gactattcag	7980
ttaggtagca	gtgggacccc	ttccctgaaa	aaattgaact	cctaggtggt	gcaaccgagg	8040
taggaattgg	ggtttaagaca	cttgtagtcg	ccaagtctgg	cttaacaatg	gaagtgcagt	8100
ttgttcaggt	tgctcctcct	acaacggcag	ccatagtcac	gaccaaaggc	ccagcattca	8160
tcaagagctt	tgggtgtagc	tgggttttca	agcccatcac	cgcaaactct	acaaaggcaa	8220
aatttcgcta	ctccataaaa	accaagaaat	gggcaatacc	cataatctca	gaatacgtag	8280
caagtcttta	tttcagaaga	gcagttaagg	ccaggcttgc	cggtcttaaa	aaatactgcg	8340
agcaaggcgc	ctaacaaatg	gttcaagtcg	ctcgtctcgc	tcattcgga	ccggctaacg	8400
ccggccccctt	agcttaatcg	ttaggctggc	cgaagatatg	agttacaaga	gatggatttg	8460
tgtccactgc	gatacagcca	acaccacagc	aacagatatt	tgttcaaaat	gtcacagatc	8520
cagctatgaa	gagccggcaa	tagctgaaac	tccaatagct	aattcttacc	aaggcataca	8580
gctgttaggc	tcttggtctt	ttatcccact	aaccccatcc	attatggtaa	ttgcaataag	8640
ggatgaagtc	tgggtggttcg	tcccatttgg	gatcgagctt	attgagctca	caatactaag	8700
tgaaaaatct	aaattcttaa	tttccaatac	tacttggttc	aaaaatatag	ctttatttta	8760
taccccagca	gcgggtgtgc	ttttccctct	tagcgttttt	ctcggaaga	attgggcggc	8820
cgcatcttatg	gcaatgcacg	tgggtgttca	cctacatgct	gcatttaaca	tgcacgcaca	8880
ctgccaaaac	cacaagccaa	gaaatgaaaa	ttaacgataa	gtactctagg	cctaacaata	8940
ggttcaagtc	gctcgcttcg	ctcacttggg	accggctaaa	gccggcccct	taaccaaacg	9000
ttaggttcca	tcagtgtgta	catggccata	gtaagtacaa	catccgaatc	tgacctaacg	9060
gcactaaata	cgcccttagc	gcagttctca	aggaacgtaa	acgccatacc	agaagcggcc	9120
ctcctgcgtt	acccaaataa	atggttcctt	ggctcaaaag	acggttgcag	ttgtgcattc	9180
aggcatcttg	atcaaaatgc	tacagatctt	ggtttctcag	agcccggtga	ctgggtgggaa	9240
gaagaccaag	aagatataga	tgctacgctt	caagtagtag	aagcattcca	tacgatattg	9300
cgcgacggcc	ataaacttga	ctgcatagat	gcttggggcca	acgatagcaa	ggaacctaaa	9360
aatcttgtag	gtgatcttgt	ggttgaccta	aataaagttg	gcgccaagag	tttccgtttt	9420
tttgaaggct	atcgctttga	gctcgaagcc	agaacctaac	tagtggttca	agccgctcgc	9480
ttcgctcact	cgggaccggc	taaagccggc	cccttaacca	aacgttaggc	cctatatgca	9540
gtactcaatt	gctgatactg	agagttttca	tccgctcatg	gatgctgaga	tcaaggggca	9600
ctgcgaattc	cccgttgacc	taatttttgt	cccggacatt	gcagagtggg	ctgcttccag	9660
atgcggaaat	ctcatcgga	atcctgtcgc	aatggcagtt	agagacggag	ccactaaggg	9720
ggcaggcatt	ctcattaggc	aatcaataga	cgaatcgcaa	gtcgatagca	tcctatctcg	9780
aatggagttc	ggcggttttg	atcgtgcgcg	gtccatactg	tcctcaccgg	agaaatttat	9840
gcggcatcta	gtcctccatg	agctcgcgca	cttgattaac	aattgggggc	aagaccgaga	9900
agacgactgt	gatgaatggg	cttttaagcg	tcttggtgct	agggcctaac	aatgctgata	9960
tggactctcc	ccacaagtag	tgggcaaagc	ttttgctctg	ctcctttcgt	cggtgcggtt	10020
ccatgcgtat	atccggcctt	tcgcgagctc	agtgtctctg	ccattctgta	gttcgcgcag	10080
cgggggccca	gcgctcaagc	gatctccagg	atcagcatcg	tcacaggcct	gctgtgcagc	10140
cggccgaagg	aagaccttcc	ctctgctctc	cctctcccc	atcgctccta	atgggcgcgt	10200
cggcagccca	ggctgcccc	gcctacaagg	agcaagaaca	tgccaaacct	gacgttgcat	10260

cgcggtgaga	agaacaactg	gtggccagca	cccgaggtgc	ggctgatctg	cgggatgacc	10320
ctgtatggcc	cctggcagcc	gacggcggtc	agctcgctct	ggaacacact	caagaacgag	10380
gtgaaaggcg	ccctgggcac	ctcgctggag	aagaaggtcg	ccgcctacgc	ccaatacctg	10440
cgggcgaccg	gtcgccccctt	tgcactggcg	acggcctgga	ccgaagtcgg	ctccttcacg	10500
tccgattaca	actacgtgat	ccggattccc	aatgcacatt	tcttctactg	gggtggcacc	10560
aaggatgccc	cggacctcgg	cgctgccgcc	gcgtggacga	cggccgagca	ggtgacagcc	10620
gacttcatcg	tgtcaacgc	tcccaccgtg	gcggcctcaa	ccatcctggg	cttcgggcac	10680
cacaccggca	cgcgggagat	caccttcttc	cacgacctgc	cgatcggcct	gatcgagtcc	10740
tgtaacggca	ggccgatcac	cgactatgcg	atcaagagca	agtccgacct	gagcttcgac	10800
gagaggatca	agtacgcaa	atacctgcgc	tagccgcgta	ccccgcgtcc	gagaggctta	10860
gaagctaggg	cggccgggggt	cttcgggggg	ggtgtcttcc	tcgatttcct	caagcttgag	10920
ttccatcgcc	cagttggccg	gtgccgccgt	ggcgcgggca	acgggtgcgg	gcgccggggc	10980
ggcagcctgc	ggggcggtgg	ggttgtcctt	gtacagcttg	agcttgaggc	gcacgttggt	11040
ggccgagtcg	gcgttcttca	ctgcctcttc	ctcgctgatg	acgccttcat	gaacgaggtc	11100
gatcagcgcc	tggtcgaagg	tctgcatgcc	gaggttcttc	gacttctcca	tgatctcctt	11160
gagctcggag	aactcgttgc	gcttgatcag	gtcgcgtacg	gtcggcgtgc	cgagcatcac	11220
ctctacggcg	gcgcggcgct	tgccatcgac	ggtcttgacc	aggcgttggg	agacgaaggc	11280
gcgcaggttg	ttgccgaggt	cgttgagcag	ctgcggggcg	cgctcttcgg	ggaagaagtt	11340
gatgatgcga	tccagcgcct	ggttggcgtt	gttggcgatgc	aggggtggaaa	tggccagggtg	11400
accggtgtcg	gcgaaggcca	gggcgtgctc	catggtttcg	cggtcgcgga	tctcgccgat	11460
caggattaca	tccggcgcct	ggcgcacagt	gttcttcagc	gcggcggtga	agctgcgggt	11520
gtccacgccg	acttcgcgct	ggttgatgat	cgacttcttg	tgccggtgca	cgtactccac	11580
cgggtcctcg	atggtgatga	tgtggccgcc	gctgttgccg	ttgcggtagt	cgatcagcgc	11640
cgccagggag	gtcgacttgc	cggagccggt	accgccgacg	aacagcacca	gaccgcgctt	11700
ctccatcacc	gtctgcagca	gcacctcggg	cagcttgagg	tcctcgaact	tggggatgtc	11760
catcttgatg	ttgcgcgcga	cgatggatac	ctcggttgcc	tgcttgaaga	tgttgatgcg	11820
gaagcgaccg	acattgggca	ccgagatggc	caggttcatc	tccagctcct	tctcgaactc	11880
ggcgcgctgc	tcggcgctca	tcacgctatt	ggcgatggcg	gcgacgtcac	ccggcttgag	11940
cggctcctgg	ctgagcggct	tgagcacgcc	attgaacttg	gcgcagggcg	gcgccccggt	12000
ggacaggtag	aggtcggatc	cgtcctggct	ggacaggatt	ttcagcatct	gggaaagggtc	12060
catcgcacgc	gcttccattt	gggtggagtt	aacaaggtag	gccagctttg	cccggccgat	12120
cagcctgaaa	aatggcgcca	ttctgatggc	gcaacgaatg	ctggcacaat	agcgccatcg	12180
caaaatgagg	accccgctcat	gccccaaaggc	atggccccgc	acatcctggg	gaaaaccgaa	12240
gccgaagccg	ccgccctgaa	gaaacgtatc	gccgcggcg	aggccttcga	tgtgctggca	12300
aagaagtact	ccacctgccc	ctccggcaag	aaaggaggcg	acctggggcg	ggtgcgcccc	12360
gggcagatgg	tgcgcgccgt	ggaccagggtg	atcttcaaga	agcccttgcg	cgaagtgcac	12420
ggccccggtga	agaccagtt	cggctatcac	ctgatccagg	tgttctaccg	cgagtgatcc	12480
agcggttag	ccggccccagc	cgagggtaat	ggcgggccagc	accaggtaac	ggccggtctt	12540
ggccagggtc	accagcagca	ggaagctcca	ccagggtcgc	cgcatacccc	cagccatcag	12600
cgtcagcggg	tcgccgatca	ccggcgccca	gtcagcaaac	agcgaccagc	ggccatagcg	12660
ccgatagggtg	tgtttggcct	gctccaggcg	ttgcgcgctc	accgggaacc	agcggcgctc	12720
atgaaaagcgc	tcgatgccac	ggcccagcgc	cgcatttcaa	caccgagccc	agcacattgc	12780
ccgatactgg	ccaccgccag	cagcacgaac	acaggctggg	cgccacccag	caacaggccg	12840
accagcagcg	cctccgactt	gcaggggcaa	gcaggctggc	ggcaccgaag	gcagaaagaa	12900
acaggccgaa	gtagaccgaa	aagtcgaaca	caggtgccat	ccggcaaaaa	gtcggg	12956

<210> 5

<211> 77

<212> DNA
<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 5

atctaacaat tgggttcaagt cgctcgcttc gctcactcgg gaccggctaa agccggcccc 60
ttaaccaagc gttaggt 77

<210> 6

<211> 87

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 6

acctaacatg gcgctcaacc gcgctccctt cggtcgctgg acgctgcgcg ataaagccgc 60
gcagcgccgg ttagctctac gttaggc 87

<210> 7

<211> 88

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 7

gtctaacaat tggctcaagt cgttcgcttc gctcactcgg gacgtccgca agctgcgctc 60
gcggccgccc cttagccaaa cgttaggt 88

<210> 8

<211> 89

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 8

acctaacaat gcgctcaact gccgctcaact tcgttcgctg gactcgcaaa agctgcgctt 60

ttgctcgccc gttagcttaa tcgttaggt

89

<210> 9

<211> 89

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 9

acctaacaat gcgctcaact gccgctcact tcgttcgctg gacagtcaaa agctgcgctt 60
ttgcctgccc gttagcttaa tcgttaggt 89

<210> 10

<211> 76

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 10

gcctaacaat gcgctcaaag cgctcacttc gttcgctggg accggcgaag ccggccccctt 60
agcttaatcg ttaggt 76

<210> 11

<211> 77

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 11

acctaacaac tggttcaagt cgttcgcttc gctcactcgg gaccggctaa agccggcccc 60
ttaaccaaac gttaggt 77

<210> 12

<211> 76

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of

Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 12

gcctaacaat tggctcaagt cgttcgcttc gctcactcgg gaccggcgaa gccggcccct 60
tagccaaacg ttaggt 76

<210> 13

<211> 89

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 13

acctaacaat gcgctcaact gccgctcact tcgttcgctg gacagtcaaa agctgcgctt 60
ttgctgccc gttagcttaa tcgttaggc 89

<210> 14

<211> 76

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 14

gcctaacaag tggttcaaac cgttcgcttc gctcactggg acgggctaaa gcccgcccct 60
taaccaaacg ttaggc 76

<210> 15

<211> 89

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 15

ctctaacaat gcgctcaact atcgctcact tcgttcgctg gactcgcaaa agctgcgctt 60
ttgctgccc gttagcttaa tcgttataa 89

<210> 16

<211> 77

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 16

ttataacaat gcgctcaaact cgttcgcttc gctcactggg acgggctaaa gcccggcccct 60
tagcttaatc gttaaact 77

<210> 17

<211> 89

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 17

atttaacaat gcgctcaact gtcgctcact tcgttcgctg gacagccaaa agctgcgctt 60
ttgtctgccc gtttagcttaa tcgttaggg 89

<210> 18

<211> 78

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 18

ccctaacaaa tggttcaaag ccgttcgctt cgctcactcg ggaccggcta aagccggccc 60
cttaacacaaa cgtagag 78

<210> 19

<211> 77

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 19

ctctaacaaa tggttcaagt cgctcgcttc gctcactcgg gaccgggctaa agccggcccc 60
ttaacacaaac gtaggc 77

<210> 20
<211> 88
<212> DNA
<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 20
gcctaacaac tcaactcaacc tcgttcgctc cgctcactgg actcgcaaaa gctacgcttt 60
tgctcgccgg ttagctcaaa cgtaggc 88

<210> 21
<211> 77
<212> DNA
<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 21
gcccaacaaa tggttcaagt cgctcgctcc gctcactcgg gaccggctaa agccggcccc 60
ttaaccaaac gtaggg 77

<210> 22
<211> 77
<212> DNA
<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 22
ccctaactag tggttcaagc cgctcgcttc gctcactcgg gaccggctaa agccggcccc 60
ttaaccaaac gtaggc 77

<210> 23
<211> 78
<212> DNA
<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 23
gcctaacaaa tggttcaagt cgttcgcttc gctcactgcg ggaccggcta aagccggccc 60
cttaacaaa cgtaggt 78

<210> 24
<211> 77
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 24
acctaacaat tggttcaagt cgttcgcttc gctcactcgg gaccggctaa agccggcccc 60
ttaacaaac gtaggc 77

<210> 25
<211> 76
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 25
gcctaacaac tggttcaagt cactcgcttc gctcgctcgg gaccggcata gccggccct 60
taacaaacg ttaggt 76

<210> 26
<211> 77
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 26
gcctaacaat gcgttcaagt cgttcgcttc actcactcgg gaccggctaa agccggcccc 60
ttaacaaac gtaggt 77

<210> 27
<211> 90
<212> DNA
<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 27

acctaacaaa cggttcaagt tcgttcgctt cgctcactcc ggacgcccg c aagctacgct 60
cgcggtcgcc ccttaacctg tccgttaggc 90

<210> 28

<211> 89

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 28

gcctaacaat acgctcaact atcgctcact tcgttcgctg gacgtccaaa agctgcgctt 60
ttggccgccc gttagcttaa ccgttatgt 89

<210> 29

<211> 89

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 29

acataacaat gcgctcaact gccgctcact tcgttcgctg gacagccaaa agctacgctt 60
ttgcctgccc gttagcttaa tcgttaggc 89

<210> 30

<211> 89

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 30

gcctaacaag tcgctcaact gccgctcact ccgttcgctg gacagccaaa agctgcgctt 60
ttgtctgccc gttagcttaa tcgttaggc 89

<210> 31
<211> 89
<212> DNA
<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 31
gcctaacaat gcgctcaact atcgctcact ccgttcgctg gacgtccaaa agctgcgctt 60
ttggccgccc gttagcttaa tcgttaggc 89

<210> 32
<211> 76
<212> DNA
<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 32
gcctaacaac tggttcaagc cactcgcttc gctcgctcgg gaccgcgtac cgcggcccct 60
taaccaaacg ttgggc 76

<210> 33
<211> 78
<212> DNA
<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 33
gccaacaaaa cggttcaaga ccgctcgctt tgctcgctcg ggaccggcta aaaccggccc 60
cttaacaaaa cgtaggg 78

<210> 34
<211> 75
<212> DNA
<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 34
gcctaacaac tggttcaaatt cgctcgctcc gctcgctggg accggcgaag ccggcccctt 60
aaccaaactg taggc 75

<210> 35
<211> 76
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 35
gcctaacaat gcgctcaaag cgctcacttc gttecgctggg accggcgaag ccggcccctt 60
agcttaactg ttaggt 76

<210> 36
<211> 89
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 36
acctaacaat gcgctcaact gtcgctcact tcgttcgctg gacagtcaaa agctgcgctt 60
ttgctgccc gttagcttaa tcgttagcg 89

<210> 37
<211> 64
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 37
cgctaacaat tcgctgcagg cgcgacggcc ctgacgggcc gcggcctgag ctcaaactgtt 60
ataa 64

<210> 38
<211> 78
<212> DNA
<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 38

ttataacaat tggttcaagt cgttcgcttc gtcactgcg ggaccggcta aagccggccc 60
cttaaccaaa cgtaggc 78

<210> 39

<211> 78

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 39

gcctaacaaa tggttcaagt cgctcgcttc gtcattcgg gaccggctaa cgccggcccc 60
ttagcttaat cgtaggc 78

<210> 40

<211> 77

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 40

gcctaacaat aggttcaagt cgctcgcttc gtcacttgg gaccggctaa agccggcccc 60
ttaacaaac gtaggt 77

<210> 41

<211> 77

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 41

acctaactag tggttcaagc cgctcgcttc gtcactcgg gaccggctaa agccggcccc 60
ttaacaaac gtaggc 77

<210> 42

<211> 76
<212> DNA
<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 42

atataacaat tggttcaaac cgttcgctgc gctcactggg acgggctaaa gcccgccct 60
taaccaaacg ttatgc 76

<210> 43

<211> 87

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 43

gcataacaat tggctcaagc cgctcgctcc gctcactcgg acgtccgtaa gctacgttc 60
cggccgccc ttagccaaac gttaggg 87

<210> 44

<211> 78

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 44

ccctaacaaa tggttcaaag ccgttcgctt cgctcactcg ggaccggcta aagccggccc 60
cttaacaaa cgttaggc 78

<210> 45

<211> 89

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 45

gcctaacaat gcgctcaact gccgctcact tcgttcgctg gacagtcaaa agctgcgctt 60
ttgcctgccc gtttagcttaa tcgttagag 89

<210> 46
<211> 77
<212> DNA
<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 46
ctctaacaat gcgctcaaact cgctcactac gttcgtcggg accggctaaa gccggccctt 60
tagcttaatc gtttagag 77

<210> 47
<211> 78
<212> DNA
<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 47
ctctaacaat tggttcaagt cgttcgcttc gctcactgcg ggaccggcta aagccggccc 60
cttaaccaa cgttaggg 78

<210> 48
<211> 77
<212> DNA
<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 48
ccctaacaaa tggttcaagt cactcgcttc gctcgttcgg gaccggctaa agccggcccc 60
ttaaccaaac gtttagag 77

<210> 49
<211> 78
<212> DNA
<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 49

ctctaacaac tggttcaagt cgttcgcttc gctcactgcg ggaccggcta aagccggccc 60
cttaaccaaa cgtaggc 78

<210> 50

<211> 88

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 50

atctaacaat tggctcaagt cgttcgcttc gctcactcgg gacgtccaat agctgcgcta 60
ttggccgccc cttagccaaa cgtaggc 88

<210> 51

<211> 78

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 51

gcctaacaac tggttcaagt cgttcgcttc gctcactgcg ggaccggcta aagccggccc 60
cttaaccaaa cgtaggg 78

<210> 52

<211> 79

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 52

ccctaacaaa tggttcaagt cgttccgctt cgctcactgc gggaccggct aatgccggcc 60
ccttaaccaa acgtaggc 79

<210> 53

<211> 89

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 53

gcctaact gcagtcaacc ggacaccaa ctgtacgcag ttggttccc tccgctgcgc 60
tccggtgccg gttactttca acgtaggc 89

<210> 54

<211> 76

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 54

gcctaacaat gcgctcaaag cgctcacttc gttcgtggg accggcgaag ccggccctt 60
agcttaatcg ttagaa 76

<210> 55

<211> 77

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 55

ttctaactac tggttcaagt cgttcgcttc gctcactcgg gaccggctaa agccggcccc 60
ttaaccaaac gtagcc 77

<210> 56

<211> 89

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 56

ggctaacaat gcgctcaact gtcgctcact tcgttcgctg gacagccaaa agctacgctt 60

ttgtctgccc gtttagcttaa tcgtttagga

89

<210> 57

<211> 76

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 57

gcctaacaac tggttcaagc cactcacttc gctcgctcgg gaccgcgttc cgcggccccct 60
taaccaaacg ttgggc 76

<210> 58

<211> 89

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 58

gccaacaat gcgctcaact gccgctcact tcgttcgctg gacgtccaaa agctacgctt 60
ttggccgccc gtttagcttaa tcgttatgc 89

<210> 59

<211> 78

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 59

gcataacaat tgattcaagt cgttcgcttc gctcactgcg ggaccggcta aagccggccc 60
cttaacaaaa cgtaggc 78

<210> 60

<211> 76

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of

Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 60

gcctaactac tggttcaagt cactcgcttc gctcgcttcgg gaccgcgttc cgcggcccct 60
taaccaaacg ttaggc 76

<210> 61

<211> 76

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 61

atctaacaat tggctcaagt cgctcgcttc gctcactcgg gaccggcgaa gccggcccct 60
tagccaaacg ttatgc 76

<210> 62

<211> 87

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 62

gcataacaat tggctcaagc cgctcgcttc gctcactcgg acgtccgtaa gctacgcttc 60
cggccgcccc ttagccaaac gtaggc 87

<210> 63

<211> 77

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 63

gcctaacaaa tggttcaagt cgctcgcttc gctcactcgg gaccggcctaa agccggcccc 60
ttaaccaaac gtaggc 77

<210> 64

<211> 72

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 64

gcctaactat tcagtcaagc ggacgcaaac cccgctgcgc ggtctttgcg ccgcttatct 60
caagcgttag at 72

<210> 65

<211> 77

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 65

atctaactat tggttcaagc cgctcgcttc gctcactcgg gaccggctaa agccggcccc 60
ttaaccaaac gtttagag 77

<210> 66

<211> 76

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 66

ctctaacaat tggttcaagc cgctcgcttc gctcgctcgg gatcggcgaa gccggcacct 60
taaccaaacg ttagag 76

<210> 67

<211> 78

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 67

ctctaacaat tggttcagat cgttcgcttc gctcactcgc ggaccggctg aagccggccc 60
cttaacaaa cgtaggc 78

<210> 68
<211> 77
<212> DNA
<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 68
gcctaactac tggttcaagt cgttcgcttc gctcactcgg gaccggctaa agccggcccc 60
ttaaccaaac gttaggc 77

<210> 69
<211> 77
<212> DNA
<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 69
gtctaacaat gcgctcaaag cgctcacttc gttcgctggg atcggctaaa gccggccccct 60
tagcttaatc gttagca 77

<210> 70
<211> 89
<212> DNA
<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 70
tgctaacaat gcgcttaact gtcgctcact tcgttcgctg gatagtcaaa agctgcgctt 60
ttgtctgtcc gttagcttaa tcgtaggc 89

<210> 71
<211> 74
<212> DNA
<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 71
gcctaacaac tggttcaaatt cgctcgctcc gctcgctggg accggcatag ccggccctta 60
accaagcggt agat 74

<210> 72
<211> 76
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 72
atctaacaat tggttaaaac cgttcgcttc gctcactggg accggctaaa gccggcccct 60
taaccaaacg ttaggt 76

<210> 73
<211> 76
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 73
gtttaacaac tggttcaagc cgctcgcttc gctcactcgg gaccggctaa attcggcccc 60
ttagcaaacg ttaact 76

<210> 74
<211> 78
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 74
atctaacaat tggttcaagt cgctcgcttc gctcactcgg gaccggctaa agccggcccc 60
ttaaaccaag cgttatgc 78

<210> 75
<211> 77
<212> DNA
<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 75

gtataacaat tggttcaagt cactcgcttc gtcgctcgg gaccggctaa agccggcccc 60
ttaaccaaac gttagat 77

<210> 76

<211> 77

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 76

gcataacaag tcgctcaaat cgctcacttc gtttcgctgg gacgggctaa agccggcccc 60
ttagcttatt gttaggc 77

<210> 77

<211> 77

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 77

gcctaacaaa tggttcaagc cgttcgcttc gtcactcgg gaccggctaa agccggcccc 60
ttaaccaaac gttagac 77

<210> 78

<211> 77

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 78

ctctaacaaa tggttcaagc cgttcgcttc gtcactcgg gaccggctaa agccggcccc 60
ttaaccaaac gttagag 77

<210> 79
<211> 52
<212> DNA
<213> Unknown

<220>

<223> Description of Unknown Organism: Synthetic
Oligonucleotide based on Pseudomonas Alcaligenes
NEB#585 (ATCC 55044)

<400> 79
tcgcttcgct cactgcgggga ccggctaaag ccggcccctt aaccaaactg ta 52

<210> 80
<211> 43
<212> DNA
<213> Unknown

<220>

<223> Description of Unknown Organism: Synthetic
Oligonucleotide based on Pseudomonas Alcaligenes
NEB#585 (ATCC 55044)

<400> 80
taacaattgg ttcaagtcgt tcgcttcgct cactgcgggga ccg 43

<210> 81
<211> 43
<212> DNA
<213> Unknown

<220>

<223> Description of Unknown Organism: Synthetic
Oligonucleotide based on Pseudomonas Alcaligenes
NEB#585 (ATCC 55044)

<400> 81
taactattca gtcaagcgga cgcaaaccct gctgcgcggt ctt 43

<210> 82
<211> 43
<212> DNA
<213> Unknown

<220>

<223> Description of Unknown Organism: Synthetic
Oligonucleotide based on Pseudomonas Alcaligenes
NEB#585 (ATCC 55044)

<400> 82
taacaatgcg ctcaactgcg ctcaacttcgt tcgctggaca gcc 43

<210> 83
<211> 43
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Synthetic
Oligonucleotide based on Pseudomonas Alcaligenes
NEB#585 (ATCC 55044)

<400> 83
taacaagtgcg ctcaactgcc gctcactcgt tcgctggaca gcc 43

<210> 84
<211> 19
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Synthetic
Oligonucleotide based on Pseudomonas Alcaligenes
NEB#585 (ATCC 55044)

<400> 84
gccccttaac caaacgtta 19

<210> 85
<211> 20
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Synthetic
Oligonucleotide based on Pseudomonas Alcaligenes
NEB#585 (ATCC 55044)

<400> 85
ccgagtgcgc gaagcgagcg 20

<210> 86
<211> 33
<212> DNA
<213> Unknown

<220>

<223> Description of Unknown Organism: Synthetic
Oligonucleotide based on Pseudomonas Alcaligenes
NEB#585 (ATCC 55044)

<400> 86

aaactcgagg gtcccgagtg agcgaagcga gcg

33

<210> 87

<211> 33

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Synthetic
Oligonucleotide based on Pseudomonas Alcaligenes
NEB#585 (ATCC 55044)

<400> 87

aaactcgagg gtcccgagcg agcgaagcga gcg

33

<210> 88

<211> 33

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Synthetic
Oligonucleotide based on Pseudomonas Alcaligenes
NEB#585 (ATCC 55044)

<400> 88

aaactcgagg ctgtccagcg agcgaagcga gcg

33

<210> 89

<211> 33

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Synthetic
Oligonucleotide based on Pseudomonas Alcaligenes
NEB#585 (ATCC 55044)

<400> 89

aaactcgaga ccgcgagcg gggtttgcgt ccg

33

<210> 90

<211> 31
<212> DNA
<213> Unknown

<220>

<223> Description of Unknown Organism: Synthetic
Oligonucleotide based on Pseudomonas Alcaligenes
NEB#585 (ATCC 55044)

<400> 90
tgctctagac ggcccccttaa ccaaacgtta g

31

<210> 91
<211> 35
<212> DNA
<213> Unknown

<220>

<223> Description of Unknown Organism: Synthetic
Oligonucleotide based on Pseudomonas Alcaligenes
NEB#585 (ATCC 55044)

<400> 91
tgctctagac ggccgcccgt tagcttaatc gttag

35

<210> 92
<211> 60
<212> DNA
<213> Unknown

<220>

<223> Position 2 & 60 - Y = C or T; Position 51 & 59 -
R = A or G

<220>

<223> Description of Unknown Organism: Consensus
sequence

<400> 92
gyctaacaat tcgttcaagc cgacgccgct tcgcggcgcg gcttaactca rgcgtagry 60

<210> 93
<211> 7
<212> DNA
<213> Unknown

<220>

<223> Description of Unknown Organism: Consensus

sequence

<220>

<223> Position 4, 5 & 6 - R = A or G; Position 7 - Y = C
or T

<400> 93

gttrrry

7

<210> 94

<211> 7

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Consensus
sequence

<220>

<223> Position 1 - R = A or G; Position 2, 3 & 4 - Y = C
or T

<400> 94

ryyyaac

7

<210> 95

<211> 6

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Consensus
sequence

<220>

<223> Position 5 - R = A or G; Position 6 - Y = C or T

<400> 95

ttagry

6

<210> 96

<211> 24

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Consensus
Sequence

<400> 96
taacatacccc ctgcgtaa aa cgtt 24

<210> 97
<211> 40
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Consensus
Sequence

<400> 97
taacagtcaa cgtcctcgtc ctgcgccctt acaacgtag 40

<210> 98
<211> 74
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Consensus
Sequence

<400> 98
ctaacaattg gttcaagtcg ctcgcttcgc tcgctcgga cgggctaaag ccggccccctt 60
aaccaaacgt tagg 74

<210> 99
<211> 19
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Genomic DNA Of
Pseudomonas Alcaligenes NEB#585 (ATCC 55044)

<400> 99
gccagatggc ggccgttta 19

<210> 100
<211> 5
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Genomic DNA Of

Pseudomonas Alcaligenes NEB#585 (ATCC 55044)

<400> 100

tctac

5

<210> 101

<211> 33

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA Of
Pseudomonas Alcaligenes NEB#585 (ATCC 55044)

<400> 101

gccctatgac agaaaacgct tttttgccg ttt

33

<210> 102

<211> 10

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA Of
Pseudomonas Alcaligenes NEB#585 (ATCC 55044)

<400> 102

ccaacgtccg

10

<210> 103

<211> 4

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA Of
Pseudomonas Alcaligenes NEB#585 (ATCC 55044)

<400> 103

atag

4

<210> 104

<211> 9

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA Of

Pseudomonas Alcaligenes NEB#585 (ATCC 55044)

<400> 104

tcatcgtcc

9

<210> 105

<211> 21

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA Of
Pseudomonas Alcaligenes NEB#585 (ATCC 55044)

<400> 105

cccacgactt aacgcttgcc g

21

<210> 106

<211> 3

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA Of
Pseudomonas Alcaligenes NEB#585 (ATCC 55044)

<400> 106

ata

3

<210> 107

<211> 28

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA Of
Pseudomonas Alcaligenes NEB#585 (ATCC 55044)

<400> 107

tcagggaaaa ccgcgttttg ccgttcga

28

<210> 108

<211> 5

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA Of

Pseudomonas Alcaligenes NEB#585 (ATCC 55044)

<400> 108

ctgaa

5

<210> 109

<211> 6

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA Of
Pseudomonas Alcaligenes NEB#585 (ATCC 55044)

<400> 109

gatagg

6

<210> 110

<211> 4

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA Of
Pseudomonas Alcaligenes NEB#585 (ATCC 55044)

<400> 110

tcta

4

<210> 111

<211> 5

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA Of
Pseudomonas Alcaligenes NEB#585 (ATCC 55044)

<400> 111

actaa

5

<210> 112

<211> 18

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA Of

Pseudomonas Alcaligenes NEB#585 (ATCC 55044)

<400> 112
gccagatgtc ggccgttt 18

<210> 113
<211> 36
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Genomic DNA Of
Pseudomonas Alcaligenes NEB#585 (ATCC 55044)

<400> 113
gcctctatga tagtaaaagc gcttttttgt cggttt 36

<210> 114
<211> 6
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Genomic DNA Of
Pseudomonas Alcaligenes NEB#585 (ATCC 55044)

<400> 114
cactga 6

<210> 115
<211> 5
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Genomic DNA Of
Pseudomonas Alcaligenes NEB#585 (ATCC 55044)

<400> 115
aacta 5

<210> 116
<211> 8
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Genomic DNA Of

Pseudomonas Alcaligenes NEB#585 (ATCC 55044)

<400> 116
ccattgga 8

<210> 117
<211> 30
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Consensus
Sequence

<400> 117
taactactct cctcgagccg ccctccgtta 30

<210> 118
<211> 64
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Consensus
Sequence

<400> 118
ctaacatggt tcaagcttcg ctactggga ccggctaaag ccggcccctt aaccaaact 60
tagg 64

<210> 119
<211> 77
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Consensus
Sequence

<400> 119
gcctaacaat tggttcaagc cggtcgttc gctactcgg gaccggctaa agccggcccc 60
ttaaccaaac gttaggc 77

<210> 120
<211> 32
<212> DNA
<213> Unknown

<220>

<223> Description of Unknown Organism: Consensus
Sequence

<400> 120

aacgtcaacc tccgtctggc cggccttacg tt

32

<210> 121

<211> 50

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Consensus
Sequence

<400> 121

aacaggttca acctcctcgc tctgggaccg cgggcctta ccaaacgttg

50

<210> 122

<211> 77

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Consensus
Sequence

<400> 122

gcctaacaac tggttcaagt cgctcgcttc gctcgctcgg gaccggctaa agccggcccc 60
ttaaccaaac gttaggg 77

<210> 123

<211> 45

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Consensus
Sequence

<400> 123

aacacgctaa ccgctcctcg tcgctggagc gcgtagcta cgta

45

<210> 124

<211> 75

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Consensus
Sequence

<400> 124

ctaacaatgc gctcaactcg ctcaacttcgt tcgctggacc aaaagctcgc ttttggcccg 60
ttagcttaat cgtta 75

<210> 125

<211> 89

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Consensus
Sequence

<400> 125

acctaacaat gcgctcaact gtcgctcact tcgttcgctg gacagccaaa agctgcgctt 60
ttgctgccc gtttagcttaa tcgttaggc 89

<210> 126

<211> 49

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Consensus
Sequence

<400> 126

taacacgctc aacgtcctcg tctggggca agccgccctt agctcgta 49

<210> 127

<211> 64

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Consensus
Sequence

<400> 127

taacaagcgc tcaaacgctc cttegtcgtt gggacggcaa gccgcccctt agcttaatcg 60
ttag 64

<210> 128

<211> 77
<212> DNA
<213> Unknown

<220>

<223> Description of Unknown Organism: Consensus
Sequence

<400> 128
gcctaacaat gcgctcaaag cgctcacttc gttecgctggg accggctaaa gccggcccct 60
tagcttaatc gtttaggt 77

<210> 129
<211> 78
<212> DNA
<213> Unknown

<220>

<223> Description of Unknown Organism: Consensus
Sequence

<400> 129
gcctaacaat tggttcaagg tcgctcgctt cgctcactcg ggaccggcta aagccggccc 60
cttaaccaaa cgtttaggc 78

<210> 130
<211> 78
<212> DNA
<213> Unknown

<220>

<223> Description of Unknown Organism: Consensus
Sequence

<400> 130
gcctaacaat tggttcaagg tcgctcgctt cgctcactcg ggaccggcta aagccggccc 60
cttaaccaaa cgtttaggc 78